

Solarize Lexington 1. Installer Profile

Please fill in all blue cells with the requested information pertaining to the firm. If you need to provide explanatory notes, please use Column E.

Proposer Instructions

Date: 5/14/2026

Proposer Contact Information				Notes
Name	Matt Parymiller			
Title	General Manager			
Phone Number	877-312-7456			
Email	Matt@sesre.com			
Firm Information				Notes
Proposing Firm	Solar Energy Solutions			
Headquarters Address	1038 Brentwood Court, Lexington, KY 40511			
Local Address (where work will be completed for this project)	1038 Brentwood Court, Lexington, KY 40511			
FEIN	20-4967967			
Kentucky License Number	CE64790			
Subsidiaries & Affiliates Information				Notes
	Name	Address	FEIN	
Company #1	N/A			
Company #2	N/A			
Company #3	N/A			
Employee Information				Notes
Number of Full Time Employees	74			
Number of Part Time Employees	0			
Number of Employees in Kentucky	43			
Number of Install Employees Permanently Based In Campaign Area	37			
Number of Sales Employees Permanently Based In Campaign Area	5			
Number of Employees with Other Relevant Certifications	We have seven employees with KY Electrical licenses, two with PE licenses, nine with NABCEP certifications, and one employee with a drone pilot's license.			
Firm Experience				Notes
Years of Experience				
Firm (total years)	20			
Firm (years in Kentucky)	20			
Project Manager (years)	Steven Riddle (4 years)			
Lead Installer #1 (years)	Ben Jones (7 years)			
Lead Installer #2 (years)	Tim Burke (6 years)			
Residential Solar PV Installations	2023	2024	2025	
Customer Owned Systems (# in US)				NDA Required
Customer Owned Systems (# in Kentucky)				NDA Required

Customer Owned Systems (# in Lexington)				NDA Required
Residential Energy Storage Installations	2023	2024	2025	
Customer Owned Systems (kWh in US)				NDA Required
Customer Owned Systems (kWh in Kentucky)				NDA Required
Customer Owned Systems (kWh in Lexington)				NDA Required
Residential/Small Commercial Ground Mount Installs	2023	2024	2025	
Customer Owned Systems (# & kW in US)				NDA Required
Financial Position				Notes
Business Revenue & Profits	2023	2024	2025	
Annual Gross Revenues				NDA Required
Annual Net Profit				NDA Required
Financing/Loan Partners	2023	2024	2025	
Firm #1: Name	Credit Human	Credit Human	Credit Human	
Firm #1: Financing Product	Installment Loans	Installment Loans	Installment Loans	
Firm #1: # Customers That Used Product	23	25	36	
Firm #2: Name	Sunlight/Dividend			
Firm #2: Financing Product	Installment Loans			
Firm #2: # Customers That Used Product	3 SL / 6 Div			
Insurance				Notes
	Name	Coverage	Policy #	
Installers Bank	5/3 Bank	N/A	N/A	
Entity Proving Bonding / Financial Backing	Houston Casualty	\$2MM General, \$4M	HCC2672336	Please see COI in additional documentation
Liability Insurer	West Bend Mutual	\$2MM General, \$4M	B216504	
Worker's Compensation Insurer	KY AGC (100700)	\$4.5 MM	022592-23	
Is this business (local or parent company) or its management involved in any pending lawsuits, regulatory proceedings, or other legal proceedings involving the business?	Neither Solar Energy Solutions nor its management is involved in any pending lawsuits, regulatory proceedings, or other legal proceedings involving SES.			
Does the business conduct criminal background checks before hiring employees?	Solar Energy conducts background checks on all employees before hiring them. SES conducts a ten-year criminal background check and a five year motor vehicle check.			
Is the business or any officer of the company involved in bankruptcy or insolvency proceedings?	Neither Solar Energy Solutions nor its officers are involved in bankruptcy or insolvency proceedings.			

Solarize Lexington

2A. Residential Solar PV & Battery Storage Pricing

Please fill in all blue cells with the requested pricing information. Base pricing proposals should include total installation price, which includes system design, permitting, applicable materials and equipment, transportation, labor, and all equipment and workmanship warranties. The price should be independent of any tax credits or incentives available to the customers. Outline the specific process, electrical, mechanical, structural, equipment, site, or labor features that will result in cost reductions or increases above the Base Pricing Proposal. The Proposer should place \$0 for all applications that will not result in a cost modification and "N/A" if it is not offered.

Proposer Instructions

Proposing Firm:	Solar Energy Solutions						
	Example Array Size (kW DC)						Notes
Base Solar Proposal	Tier 1: 5 kW		Tier 2: 10 kW		Tier 3: 20 kW		
Standard Panel Price KY	2.29	\$/W	1.97	\$/W	1.90	\$/W	All the pricing in this section includes Tesla Inverters with string level rapid shutdown devices.
							We have chosen to lead with the 'cost engineering' model, which is our philosophy to all sales. If there are site conditions that warrant it we would then move to micro inverters/Optimizer and the adders are below.
Standard Panel Price KY prior to solarize discount	2.6	\$/W	2.36	\$/W	2.29	\$/W	
Factor or Special Condition							
Microinverters	0.25	\$/W	0.25	\$/W	0.25	\$/W	For Enphase IQ8 Microinverters (as an alternate to Tesla inverter)
Power Optimizers	0.25	\$/W	0.25	\$/W	0.25	\$/W	For SolarEdge Inverter (as an alternate to Tesla inverter)
Inverter Extended Warranty (each)	233	\$	386	\$	772	\$	Only for SolarEdge systems (Base system includes Tesla Inverter with a 12 year warranty not extendable from Tesla, but covered in SolarInsure (see below), Enphase inverters have a 25 year warranty.
Extended Warranty Whole System (e.g. SolarInsure)	0.1	\$/W	0.1	\$/W	0.1	\$/W	3 SolarInsure offerings: SI-30 Solar Only is \$0.10/w, SI-30 Total System is \$0.10/w of solar + \$0.12/wh if storage, SI-30 Battery Only is \$0.15/wh of storage.
Any Solar Grant Program projects require 25 year warranty. Please indicate if you are able to offer this option and provide warranty details.	0		0		0		SES will provide SolarInsure SI-30 Solar coverage to all grant customers
Panels in Non-standard Orientation	0.2	\$/W	0.15	\$/W	0.15	\$/W	Except Tesla panels which require landscape orientation
Roof Pitch > 7/12 to 12/12	0.15	\$/W	0.15	\$/W	0.15	\$/W	
Roof Pitch > 12/12	0.3	\$/W	0.3	\$/W	0.3	\$/W	
Additional Roof Surfaces (over 2)	325	\$	325	\$	325	\$	
PVC Roof Vent Move	400	\$	400	\$	400	\$	
Ground Mount Adder (including 100' Trenching)	1.49	\$/W	0.7	\$/W	0.4	\$/W	
Ground Mount Additional Trenching per 100'	0.2	\$	0.2	\$	0.17	\$	Note: Trenching beyond the initial 100 feet will be charged in 10' sections (\$0.02/w/10ft and \$0.017/w/10ft section at 20kW), not the whole 100' if they go over by 20 ft.
Electrical Panel Upgrade (200A)	2,000	\$	2,000	\$	2,000	\$	panel only, service upgrade custom quote
Critter Guards (\$/ft.)	6	\$/ft	6	\$/ft	6	\$/ft	
Additional story adder above single story	1000	\$	2000	\$	3000	\$	
Tesla Solar Panel (Tesla Panel Mount low profile, skirted racking included)	0.51	\$/W	0.51	\$/W	0.51	\$/W	
QCell 430w Module	0.51	\$/W	0.51	\$/W	0.51	\$/W	
	Example Battery #						Notes
Base Storage Proposal	1 x Battery		2 x Battery		3 x Battery		
Storage Capacity	13.5	kWh	27	kWh	40.5	kWh	Tesla Powerwall 3 installed with Tesla Gateway

Battery System Price	15,039	\$	27,966.5	\$	40,190.17	\$	Powerwall Installed with solar using the solar inverter internal to the powerwall 3, pricing reflects full PW3, typical multiple battery options would be single PW3 with multiple expansion units as on line 34.
Battery System Price	1114	\$/kWh	1035.8	\$/kWh	992.34988	\$/kWh	Total cost/kWh
HVAC Compressor Soft Start Addition (if required)	n/a	\$	n/a	\$	n/a	\$	Not needed with most PW3 systems
Tesla Powerwall 3 Expansion Unit	7880		15760		23640		
Franklin WH APower S	21337	\$	19731	\$	19106	\$	Uses internal inverter for solar, installed with AGate
<p>Note: Battery system pricing must reflect standard full (turnkey) storage system install costs including battery, any required transformer, CT's, control, communication and partial or full load center install component additions. Pricing presumes no abnormal conduit/wiring runs and battery being adjacent to breaker panel.</p> <p>Note: Clearly indicate if there are variations in price offering, for example, for financed or cash purchases.</p>							

Solarize Lexington

2B. Residential Solar PV & Battery Storage Pricing Optional Cost Engineering Proposal

Please fill in all blue cells with the requested pricing information. Base pricing proposals should include total installation price, which includes system design, permitting, applicable materials and equipment, transportation, labor, and all equipment and workmanship warranties. The price should be independent of any tax credits or incentives available to the customers. Outline the specific process, electrical, mechanical, structural, equipment, site, or labor features that will result in cost reductions or increases above the Base Pricing Proposal. The Proposer should place \$0 for all applications that will not result in a cost modification and "N/A" if it is not offered.

Proposer Instructions

Description of cost optimization offering. Please define here the property and/or system type that would benefit from your cost engineering approach and any limitations (roof type, shading degree, code etc.) to the use of this option by all typical homeowners. Example: for simple limited facet roofs without shading rapid disconnects can be substituted for panel level optimisers or microinverters offering reduced install costs to 1/3 of systems. Example: for simple limited facet roofs without shading rapid disconnects can be substituted for panel level optimisers or microinverters offering reduced install costs to 1/3 of systems. Example: shared MPLE arrays and/or rail free attachments		This page below is a duplicate of Tab 2A. Our standard pricing starts with the "cost engineering option" which is the most economically efficient system for every customer. When site-specific conditions — such as shading, roof complexity, or other factors — require optimizers, microinverters, or alternative solutions, we apply targeted adders to price only what's actually needed. This approach ensures every customer begins with the best value baseline, and pays more only when their specific situation demands it.
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Proposing Firm:		Solar Energy Solutions					
		Example Array Size (kW DC)				Notes	
Base Solar Proposal		Tier 1: 5 kW		Tier 2: 10 kW		Tier 3: 20 kW	
Standard Panel Price KY		2.29 \$/W	1.97 \$/W	1.9 \$/W	All the pricing in this section includes Tesla Inverters with string level rapid shutdown devices.		
					We have chosen to lead with the 'cost engineering' model, which is our philosophy to all sales. If there are site conditions that warrant it we would then move to micro inverters/Optimizer and the adders are below.		
Standard Panel Price KY prior to solarize discount		2.6 \$/W	2.36 \$/W	2.29 \$/W			
Factor or Special Condition							
Microinverters		0.25 \$/W	0.25 \$/W	0.25 \$/W	For Enphase IQ8 Microinverters (as an alternate to Tesla inverter)		
Power Optimizers		0.25 \$/W	0.25 \$/W	0.25 \$/W	For SolarEdge Inverter (as an alternate to Tesla inverter)		
Inverter Extended Warranty (each)		233 \$	386 \$	772 \$	Only for SolarEdge systems (Base system includes Tesla Inverter with a 12 year warranty not extendable from Tesla, but covered in SolarInsure (see below), Enphase inverters have a 25 year warranty.		
Extended Warranty Whole System (e.g. SolarInsure)		0.1 \$/W	0.1 \$/W	0.1 \$/W	3 SolarInsure offerings: SI-30 Solar Only is \$0.10/w, SI-30 Total System is \$0.10/w of solar + \$0.12/wh if storage, SI-30 Battery Only is \$0.15/wh of storage.		
Any Solar Grant Program projects require 25 year warranty. Please indicate if you are able to offer this option and provide warranty details.		0	0	0	SES will provide SolarInsure SI-30 Solar coverage to all grant customers		
Panels in Non-standard Orientation		0.2 \$/W	0.15 \$/W	0.15 \$/W	Except Tesla panels which require landscape orientation		
Roof Pitch > 7/12 to 12/12		0.15 \$/W	0.15 \$/W	0.15 \$/W			
Roof Pitch > 12/12		0.3 \$/W	0.3 \$/W	0.3 \$/W			
Additional Roof Surfaces (over 2)		325 \$	325 \$	325 \$			
PVC Roof Vent Move		400 \$	400 \$	400 \$			
Ground Mount Adder (including 100' Trenching)		1.49 \$/W	0.7 \$/W	0.4 \$/W			

Ground Mount Additional Trenching per 100'	0.2	\$	0.2	\$	0.17	\$	Note: Trenching beyond the initial 100 feet will be charged in 10' sections (\$0.02/w/10ft and \$0.017/w/10ft section at 20kW), not the whole 100' if they go over by 20 ft.
Electrical Panel Upgrade (200A)	2,000	\$	2,000	\$	2,000	\$	panel only, service upgrade custom quote
Critter Guards (\$/ft.)	6	\$/ft	6	\$/ft	6	\$/ft	
Additional story adder above single story	1000	\$	2000	\$	3000	\$	
Tesla Solar Panel (Tesla Panel Mount low profile, skirted racking	0.51	\$/W	0.51	\$/W	0.51	\$/W	
QCell 430w Module	0.51	\$/W	0.51	\$/W	0.51	\$/W	
	Example Battery #						Notes
Base Storage Proposal	1 x Battery		2 x Battery		3 x Battery		
Storage Capacity	13.5	kWh	27	kWh	40.5	kWh	Tesla Powerwall 3 installed with Tesla Gateway
Battery System Price	15,039	\$	27,966.5	\$	#####	\$	Powerwall Installed with solar using the solar inverter internal to the
Battery System Price	1114	\$/kWh	1035.8	\$/kWh	992.35	\$/kWh	Total cost/kWh
HVAC Compressor Soft Start Addition (if required)	n/a	\$	n/a	\$	n/a	\$	Not needed with most PW3 systems
Tesla Powerwall 3 Expansion Unit	7880		15760		23640		
Franklin WH APower S	21337	\$	19731	\$	19106	\$	Uses internal inverter for solar, installed with AGate
<p>Note: Battery system pricing must reflect standard full (turnkey) storage system install costs including battery, any required transformer, CT's, control, communication and partial or full load center install component additions. Pricing presumes no abnormal conduit/wiring runs and battery being adjacent to breaker panel.</p> <p>Note: Clearly indicate if there are variations in price offering, for example, for financed or cash purchases.</p>							

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3. Financing & Qualifications

Please fill in all blue cells with the requested information pertaining to your available financing products and qualifications. If you need to provide explanatory notes, please use Column D. If another company will be providing financing options, please provide a reference and contact information for a representative at the financing company you partner with and intend to offer to participants. If you propose to work with multiple lenders, please provide the information for each lender. Add more columns as necessary.

Proposer Instructions

Proposing Firm:		Solar Energy Solutions		
Customer Ownership (Upfront Purchase)				
Loan Terms (Please list most commonly used offerings)	Offering #1	Offering #2	Offering #3	Notes
Lender Company Name	Clean Energy Credit Union	Clean Energy Credit Union	Clean Energy Credit Union	
Lender Contact Phone	Logan Nearmyer	Logan Nearmyer	Logan Nearmyer	
Lender Contact Email	nearmyer@cleanenergy	nearmyer@cleanenergy	nearmyer@cleanenergy	nearmyer@cleanenergycu.org
Product Name	Solar PV System Loan	Solar PV System Loan	Solar PV System Loan	
Term Length Range (Years)	12	15	20	
Interest Rate Range (%)	as low as 7.50%	as low as 8.00%	as low as 8.25%	
Down Payment (\$ or %)	0	0	0	
Dealer fees	0	0	0	
How many customers have used this product in the past 12 months?	New offering	New offering	New offering	We switched to Clean Energy Credit Union very recently. We are an Amicus member and many other member companies we very happy with CECU.
Qualifications	Offering #1	Offering #2	Offering #3	Notes
Minimum FICO Score	See note	See note	See note	Clean Energy Credit Union does not have a hard minimum FICO score requirement. Applicants with a 680 or higher will typically experience the fastest approval process. Applications below 680 aren't automatically declined — the credit union will take a closer look at the full credit picture, which may extend the review timeline.
Maximum Debt-to-Income	See note	See note	See note	A DTI of 42% or lower is the sweet spot for smooth, quick approvals. Homeowners above that threshold can still apply and will be reviewed, but should expect a longer process.
If selected, would this lender commit to piloting EnergyScore as an alternative to FICO score?	See note	See note	See note	Clean Energy Credit Union pairs TransUnion FICO scores specifically. Alternative scores (such as EnergyScore) are not accepted at this time.

Solarize Lexington
4A. Solar Equipment Specifications

Please fill in all blue cells with the requested information pertaining to the Standard PV System offering corresponding to the Base Pricing Proposal and Premium PV System offering corresponding to the Cost Increases in the "Pricing" tab. If you need to provide explanatory notes, please use Column D. If providing more than one type of standard equipment with the base pricing, provide the specifications below in "Additional Standard PV Equipment". Add rows to specify additional equipment, if needed.

Proposer Instructions

Proposing Firm:			
PV System Sizing	Units		Notes
Minimum System Size Offered	No Minimum	KW-DC	Custom pricing below 4kW
Maximum System Size Offered	No Maximum	KW-DC	Custom pricing above 20kW
PV System Equipment Offerings			
Standard Panel			
Brand/Manufacturer	NE Solar		
Wattage (W)	410		
Country of Origin	Indonesia	Country	
Dimensions (H x W x D)	67.8x44.6x1.18	inches	
Efficiency	20.97	%	
Performance Warranty/Guarantee	84.8% at 25yrs	% at X year	
Equipment Warranty/Guarantee	12	Years	
Output Degradation	0.55%	% per year	2% yr. one, 0.55% yr. to 25.
Premium Panel (Higher Efficiency, Warranty or Brand Quality), if Applicable			
Brand/Manufacturer	QCell		
Wattage (W)	430		
Country of Origin	USA	Country	
Dimensions (H x W x D)	67.8 x 44.6	inches	
Efficiency	22.5	%	
Performance Warranty/Guarantee	90.58	% at X year	
Equipment Warranty/Guarantee	25	Years	
Output Degradation	0.33	% per year	At least 98.5 % of nominal power during first year. Thereafter max. 0.33 % degradation per year.
Inverter			
Brand/Manufacturer	Tesla		Basis of design (2A)
Country of Origin	USA	Country	
Model	1838000-xxxv		
CEC Efficiency	98.0% at 240 V	%	97.5% at 208 V
Warranty	12.5	Coverage at X year	
Inverter			
Brand/Manufacturer	SolarEdge		Alternate if requested or needed due to shading
Country of Origin	Vietnam	Country	
Model	USE11400H-USK5WBE29		3.8kW-11.4kW Adjustable, Domestic Content Eligible
CEC Efficiency	99%	%	
Warranty	12	Coverage at X year	
Standard Roof Racking			
Racking Type/Description	Rail		IronRidge Aire System
Applicability for the Following Roof Types	Pitched Roofs		
Brand/Manufacturer	IronRidge		
Warranty	25 years	Years	
Country of Origin	Mexico	Country	
Flashing			
Flashing Type/Description	HUG		UL 2703 CERTIFIED
Brand/Manufacturer	IronRidge		
Warranty	25 years	Years	
Country of Origin	USA	Country	
Premium Roof Racking Or Skirting, if Applicable (Array Skirting if Offered)			
Racking Type/Description	Tesla Panel Mount System		
Applicability for the Following Roof Types	All		
Brand/Manufacturer	Tesla		
Warranty	12	Years	
Country of Origin	Mexico	Country	
Ground Mount Racking			
Racking Type/Description	Fixed Tilt Racking		
Brand/Manufacturer	Sinclair		
Warranty	25	Years	
Country of Origin	USA	Country	
Microinverter			
Brand/Manufacturer	Enphase		
Type	IQ8		
Efficiency	97.3 - 97.6	%	
Warranty	25	Years	
Country of Origin	USA	Country	
Optimizer			
Brand/Manufacturer	SolarEdge		
Type	C851U		
Efficiency	99.5	%	
Warranty	25 years	Years	
Country of Origin	Mexico	Country	
Labor and Workmanship Warranties			
Describe the warranty provided for the installer's labor and workmanship (must be no less than 5 years).	for five (5) years from date of installation. Solar Energy Solutions LLC warrants its system to be free from defects in workmanship and materials under installed service conditions. Solar Energy Solutions LLC warrants that it will replace or repair any faulty materials free of charge during the warranty period. Solar Energy Solutions LLC makes no claims to warrant any materials damaged by end user abuse or mismanagement. This warranty applies exclusively to system purchaser and is non-transferable. Solar Energy Solutions LLC also bares no responsibility for damages resulting from system alterations performed by end user or other parties.		
If provided, describe the whole array warranty extension offering.	We offer Solarinsure 30-year warranty products. SI-30 Solar Only - \$0.10/watt. SI-30 Total - \$0.10/watt + \$0.12/wh of storage. SI-30 Battery - \$0.15/wh. Please note that the SES 5-Year Warranty is a comprehensive, full-wrap warranty, while Solarinsure and most competitor warranties are limited warranties.		
Describe the roof penetration warranty provided.	Roof penetrations are covered under our 5-year installation warranty, provided they do not exceed the roof's design life, and there are no pre-existing issues with the underlying roofing materials. For grant customers and those who opt for the Solarinsure Extended Warranty, the roof penetration coverage extends to 30 years within 3' of roof penetrations associated with the solar installation. Over the past 17 years, SES has not encountered any roof penetration issues that did not arise within the first year of installation.		
Additional Equipment Offerings			
Other Standard Equipment Options (Specify)	Tesla Universal Charger, 40A, \$1,000, with solar or battery installation		
Other Standard Equipment Options (Specify)	SPAN Panel, \$8,785, Smart 200A load center that replaces the home electric panel		
Other Standard Equipment Options (Specify)	QCell 430 (pricing adder on 2A)		
Other Standard Equipment Options (Specify)	Tesla 420 w panels with low profile Tesla Panel Mount racking (pricing adder in 2A)		
Other Standard Equipment Options (Specify)			

At least 98.5 % of nominal power during first year. Thereafter max. 0.33 % degradation per year. during first year. Thereafter max. 0.33 % degradation per year.

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4B. Solar Equipment Specifications (Cost Engineering Option)

Please fill in all blue cells with the requested information pertaining to the Standard PV System offering corresponding to the Base Pricing Proposal and Premium PV System offering corresponding to the Cost Increases in the "Pricing" tab. If you need to provide explanatory notes, please use Column D. If providing more than one type of standard equipment with the base pricing, provide the specifications below in "Additional Standard PV Equipment". Add rows to specify additional equipment, if needed.

Proposer Instructions

Proposing Firm:			
PV System Sizing		Units	Notes
Minimum System Size Offered		kW-DC	All equipment is on 4A
Maximum System Size Offered		kW-DC	
PV System Equipment Offerings		Units	Notes
Standard Panel			
Brand/Manufacturer			
Wattage (W)			
Country of Origin		Country	
Dimensions (H x W x D)		inches	
Efficiency		%	
Performance Warranty/Guarantee		% at X year	
Equipment Warranty/Guarantee		Years	
Output Degradation		% per year	
Premium Panel (Higher Efficiency, Warranty Or Brand Quality), If Applicable			
Brand/Manufacturer			
Wattage (W)			
Country of Origin		Country	
Dimensions (H x W x D)		inches	
Efficiency		%	
Performance Warranty/Guarantee		% at X year	
Equipment Warranty/Guarantee		Years	
Output Degradation		% per year	
Inverter			
Brand/Manufacturer			
Country of Origin		Country	
Model			
CEC Efficiency		%	
Warranty		Coverage at X year	
Inverter			
Brand/Manufacturer			
Country of Origin		Country	
Model			
CEC Efficiency		%	
Warranty		Coverage at X year	
Standard Roof Racking			
Racking Type/Description			
Applicability for the Following Roof Types			
Brand/Manufacturer			
Warranty		Years	
Country of Origin		Country	
Flashing			
Flashing Type/Description			
Brand/Manufacturer			
Warranty		Years	
Country of Origin		Country	
Premium Roof Racking Or Skirting, If Applicable (Array Skirting If Offered)			
Racking Type/Description			
Applicability for the Following Roof Types			
Brand/Manufacturer			
Warranty		Years	
Country of Origin		Country	
Ground Mount Racking			
Racking Type/Description			
Brand/Manufacturer			
Warranty		Years	
Country of Origin		Country	
Microinverter			

Brand/Manufacturer			
Type			
Efficiency		%	
Warranty		Years	
Country of Origin		Country	
Optimizer			
Brand/Manufacturer			
Type			
Efficiency		%	
Warranty		Years	
Country of Origin		Country	
Labor and Workmanship Warranties			
Describe the warranty provided for the installer's labor and workmanship (must be no less than 5 years).			
If provided, describe the whole array warranty extension offering.			
Describe the roof penetration warranty provided.			
Additional Equipment Offerings			
Other Standard Equipment Options (Specify)			
Other Standard Equipment Options (Specify)			
Other Standard Equipment Options (Specify)			
Other Standard Equipment Options (Specify)			
Other Standard Equipment Options (Specify)			

Solarize Lexington

5. Battery Equipment Specifications

Please fill in all blue cells with the requested information pertaining to the complete energy storage system corresponding to the component costs in the "Pricing" tab. If you need to provide explanatory notes, please use Column D. If providing more than one type of standard equipment with the base pricing, provide the specifications below in "Additional Equipment Offerings". Add rows to specify additional equipment, if needed.

Proposer Instructions

Proposing Firm:				
Energy Storage System Equipment Offerings	Units		Notes	
Battery System 1				
Brand/Manufacturer	Tesla		Tesla Powerwall 3 installed with Tesla Gateway 3 as partial or whole home backup depending on loads	
Storage Capacity Total (kWh)	14			
Usable Storage Capacity If Different (kWh)	13.5			
Country of Origin	USA	Country		
AC or DC Coupled	DC	AC/DC		
Operating AC Voltage Options	240	120V/208V/240V		
Dimensions (H x W x D)	45.3 x 29.7 x 6.1	inches		
Round Trip Efficiency %	90	%		
Maximum Supported Breaker Sizing	60	A		
Power Output (Peak kW and Duration)	7 kW, 10s			
Power Output (Continuous kW)	5 kW			
Performance Warranty/Guarantee	10 Years	Years/Cycles		Tesla does not set cycle limit.
Mounting Options	Both	Wall/Floor		Wall mounts add labor and potential structural assesment and reinforcement
Stackable	Yes	Yes/No	Up to 10 units per Back Up Gateway	
Battery System 2 (2nd Vendor Option If Applicable)				
Brand/Manufacturer	Franklin		aPower S with Integrated Solar Inverter	
Storage Capacity Total (kWh)	15			
Usable Storage Capacity If Different (kWh)	n/a			
Country of Origin	USA	Country	Assembled	
AC or DC Coupled	Hybrid	AC/DC		
Operating AC Voltage Options	120 / 240 V, 120	120V/208V/240V	120 / 240 V, 120 / 208 V, 60 Hz	
Dimensions (H x W x D)	29.5x45.2x11.8	inches		
Round Trip Efficiency %	90.5	%		
Maximum Supported Breaker Sizing	60	A		
Power Output (Peak kW and Duration)	15 kW / 10 sec	kW/Time		
Power Output (Continuous kW)	11.5 kW	kW		
Performance Warranty/Guarantee	15yrs	Years/Cycles	15 years or 60 MWH throughput	
Mounting Options	Both	Wall/Floor		
Stackable	Yes	Yes/No	15 kWh per unit, up to 225 kWh (15 units) per aGate	
Additional Equipment Offerings				
Other Standard Equipment Options (Specify)	Powerwall Expansion Unit (installed with Powerwall) &7,880			
Other Standard Equipment Options (Specify)	Powerwall Expansion Unit (added to an existing Powerwall system) \$10,780			
Other Standard Equipment Options (Specify)	Franklin aPower 2 (as an expansion to aPower S) \$19,337			
Other Standard Equipment Options (Specify)				
Other Standard Equipment Options (Specify)				

Solarize Lexington

6. Services Provided

Please include your answers in the blue cells to corresponding questions below pertaining to customer and campaign services.

Proposer Instructions

Proposing Firm:		Solar Energy Solutions
Customer Services Provided		
System Operation, Maintenance, and Monitoring		
Will the system include monitoring? If so, at what level (system wide or per panel)? If so, please specify the additional cost to the customer and also add this cost in the "Pricing" tab.	Yes, free monitoring is included through the inverters. The Tesla inverter provides array/string level monitoring and the SolarEdge and Enphase systems include panel level monitoring. All require a Wi-Fi internet connection. If not available a cell card can be added at an additional charge.	
If applicable: For upfront purchased systems, describe any ongoing operations and maintenance services you provide and its associated cost.	<p>SES extends its comprehensive warranty for Solarize participants to five years, an upgrade from our standard three-year coverage. This includes all labor and material costs at no charge to the participant. Long-term preventative maintenance contracts are available upon request. Hourly rate for non-contracted labor, post warranty, is \$135/hr.</p> <p>Beyond the warranty period, SES offers ongoing O&M services through our dedicated team of five full-time experts.</p>	
Health and Safety		
Describe your company's practices and policies for ensuring safety for employees on site and customers who may be present on the worksite.	<p>SES prioritizes workplace safety by immediately enrolling all new employees in OSHA 10 training and ensuring they are fully trained before starting on-site work.</p> <p>Our team adheres to a comprehensive safety manual, with employees expected to follow all protocols. To maintain the highest safety standards, SES provides ongoing training and updates through monthly and quarterly meetings as well as daily on-site safety talks. SES had no reportable incidents in 2025.</p>	
Provide your company's Experience Modification Rate (EMR) for 2023. (Insurer Provided Accident Rate Index)	0.79	

<p>Provide a summary of your business health and safety protocols for installations and interacting with customers on site during the COVID-19 pandemic.</p>	<p>Solar Energy Solutions follows all COVID-19 related guidelines from the CDC.</p>
<p>Roof-Related Services</p>	
<p>Will you be able to remove and reinstall the original PV installation should a customer need to complete roof repairs at a later date independent of the PV installation? If so, please specify the additional cost to the customer and also add this cost in the "Pricing" tab.</p>	<p>Yes, SES offers removal and reinstallation of roof-mounted solar panel systems if needed for roof repairs, replacement, or other necessary work. For smaller systems requiring two full team days for removal and reinstallation, the estimated cost is \$3,500 (plus taxes and applicable fees), assuming no unusual conditions. SES's sales, engineering, and installation teams take great care to ensure systems are not installed on roofs in poor condition, prioritizing the long-term integrity of both the roof and the solar installation.</p>
<p>Describe the methodology for weatherproofing all roof attachment points made during the installation.</p>	<p>Ironridge HUG multi-tiered waterproofing HUG® utilizes a multi-tiered stack of components to provide revolutionary waterproofing protection. The Halo cast aluminum, raised-perimeter foundation surrounds the UltraGrip™ base—a foambacked mastic seal combination that prevents water intrusion by adhering and sealing with the shingle surface. HUG is UL 2703A certified for low slope and steep slope applications.</p>
<p>Are there any roof or ground install types or processes you will not work with?</p>	<p>No, however, roofs other than shingle or metal pitched roofs will require a custom quote.</p>

Proposer Details

Customer Relations

<p>Describe your intake process for customer leads, methods for screening and customer follow up, and any data tracking systems you use for installations.</p>	<p>For the past five years, SES has managed its sales process using CRM software. In 2024, we upgraded to HubSpot and integrated Arrivy scheduling to enhance our ability to track customers throughout their journey with greater precision. HubSpot's advanced filtering features provide our sales team with deeper insights into where contacts are in the sales process. We also leverage automations and system reminders to streamline workflows and improve efficiency. Additionally, HubSpot is fully integrated with Arivy, enabling real-time capture of site visit data as information is collected, ensuring seamless data management and enhanced customer experience.</p>
<p>What languages are your customer relations staff capable of communicating in?</p>	<p>English, Spanish</p>
<p>Describe your strategies for a joint marketing strategy with LFUCG to expand the number of residential solar installations as part of this program. If applicable, include ideas about community outreach, community partners you would work with, and specific examples of marketing materials you would provide (lawn signs, flyers, mail, etc.).</p>	<p>SES has worked with other solarize and SUN programs to help expand marketing effort to residents eligible for the community solar offering. We will work with the city to design joint marketing media including yard signs, flyers and mailers. We also welcome the opportunity to present at information sessions with the city, both in person and/or virtual. We can promote those events and the program to Lexington area residents by directing Facebook and Google Ads specifically targeted to Lexington area residents. We would also recommend asking sustainability organizations in Lexington and Kentucky to share information with their members. These would include local EV clubs, the Kentucky Conservation Committee, etc.</p>
<p>Please provide names, office locations, titles and an organization chart for all sales and marketing staff specifically allocated to support this Solarize campaign.</p>	<p>Listed in Attachment I</p>

Please provide full bio details of sales and marketing staff who will support this campaign. Include time in role, solar specific training received and relevant prior experience.	Listed in Attachment I
Proposer Capacity	
For standard unfiltered residential leads (excluding Solarize campaigns) what is your 2023 total company average lead to contract conversion rate?	14.80%
What is your maximum capacity for number of remote roof evaluations you can conduct per week for this campaign?	8 per day/ 40 per week
What is your maximum capacity for number of in-person site visits you can conduct per week for this campaign?	6 per day / 30 per week
What is your maximum capacity for number of PV systems you can install per month for this campaign? Does this installation capacity assume new hires, and if so, how many new hires does it assume?	This is very dependent on the size of the system. See below
What is the maximum total number of systems you can install as contracted through the campaign?	Maximum capacity depends on average system size. SES fields five Midwest full-time residential installation teams (additional commercial) capable of installing 30+ kW/wk of standard installs or 600kW of PV systems per month. All of our teams have a licenced electrician and many have NABCEP certifications. If volume exceeds our capabilities, we look forward to bringing on new hires - ideally based in the Solarize market.
Describe your ability to handle a large number of leads and projects over a short timeframe.	To handle a large number of leads over a short time frame, local sales staff can incorporate inside sales people, sales staff in other locations for the initial remote quote. We can also pull in our commercial sales team to help if needed.
Describe a contingency plan if workload exceeds your expectations and capacity.	SES can redeploy crews from Louisville, Indianapolis, Cincinnati or other locations if opportunity arises.
Do you have any boundary limitations for providing service within the program area?	None

Solarize Lexington

7. Additional System Offerings

Proposer Instructions

Please describe the types of additional non-solar PV offerings you or a sub-contractor can provide and the corresponding price in the blue cells.

Proposing Firm:	
Electrical Services Offered	
Service	Description
Describe your or your sub-contractor's experience in providing electrical upgrade services.	SES employs in-house master and journeyman Electricians to handle an electrical panel and service upgrades. We do not subcontract any electrical work—every project is completed exclusively by our skilled SES electricians, ensuring quality, consistency, and reliability. SES has extensive experience in coordinating with utility companies and authorities having jurisdiction
Roof Repair Services Offered	
Service	Description
Do you have roofing skills in-house? If yes, please specify roofing types covered.	SES employs multiple installers with prior roofing install and repair experience. SES employees have experience with asphalt, metal, standing-seam metal, TPO, EPDM, PVC, copper and other roof types.
If not, do you have a relationship with an approved roofing contractor? If so, Please provide name, address and contact point for your approved roofing contractor.	SES seeks to work with existing project roofers for larger scopes where applicable. SES strives to not recommend any roofer or accept roof liability as this is not our core business
Other Equipment	
Please describe any other equipment that you might offer customers and the prices you will offer them at. (e.g., snow management systems, squirrel guards insulation etc.).	
Equipment	Price
SPAN Smart Electric Panel	\$8,785
Electrical Panel Replacement (up to 200A)	\$2,000
Electrical Panel replacement with Service Upgrade (200A)	\$3,000
Advanced Consumption vs. Production Monitoring (Available for Tesla, Enphase and SolarEdge Systems)	\$250
Squirrel Guards	\$6.00 per foot
Snow Guards	Custom depending on roof type

Solarize Lexington

8. Community Benefits

Proposer Instructions

Please include your answers in the blue cells below pertaining to community benefits.

Proposing Firm:	Solar Energy Solutions
Employees / Hiring	
Race and Gender Representation	
Is your business women or minority owned?	No
What percentage of your staff are women?	9.38
What percentage of your leadership/executive team are women?	30
What percentage of your staff are people of color?	18.6
What percentage of your leadership/executive team are people of color?	0
Describe any significant efforts to employ women, minorities, residents from underemployed communities, or qualified individuals with criminal records.	Solar Energy Solutions is committed to building a diverse and inclusive workforce that reflects the communities we serve. We actively recruit women, minorities, and individuals from underrepresented backgrounds through targeted job postings, partnerships with workforce development organizations, and outreach to local trade schools and community colleges. Our company supports fair-chance hiring practices and considers qualified individuals with prior criminal records in accordance with applicable laws and company policy, providing opportunities for individuals seeking to re-enter the workforce and build sustainable careers.
Describe any efforts you have made or will make to hire individuals from the local community in the Lexington-Fayette Co. MSA.	Solar Energy Solutions prioritizes hiring from the local communities where we operate. In Lexington, we focus recruitment efforts on local job boards, community workforce initiatives, and partnerships with local training programs that serve residents in lower-income and historically underemployed areas. We seek to create pathways for individuals in these communities to access stable, well-paying careers in the renewable energy industry.
Describe any processes you have in place to train and educate your operational and administrative staff on solar specific skills and to reduce employee turnover.	We offer the only paid and state-approved Solar Apprenticeship Program in Kentucky. Solar Energy Solutions places a strong emphasis on training and professional development to ensure employees have the technical skills and industry knowledge necessary to succeed in the solar industry. We provide structured onboarding, safety training, and job-specific technical training for both field and administrative staff. Employees also receive ongoing education related to solar installation practices, safety standards, project management, and evolving renewable energy technologies.
Economic Impact	
Do you pay a living wage for all employees based on Lexington-Fayette County? Please use the information provided at http://livingwage.mit.edu .	Yes
Is your staff unionized?	No
Local Community Impact	
Describe your prior and current efforts making solar inclusive to moderate-income residents and/or people of color.	SES offers the highest-quality of solar install for among the lowest costs in the nation. Our pricing adders are built to ensure modest homes realize the lowest possible cost rather than subsidizing large homes. Additionally, in markets where leasing is an option, we are bringing that on as an offering. Kentucky isn't yet available.
Describe any prior community-building efforts your business has provided to a local community that you work/worked in.	SES has a strong history of supporting the communities where we operate through nonprofit partnerships, local hiring, and industry advocacy. We routinely donate solar installations to nonprofit organizations to help reduce their operating costs and allow them to direct more resources toward their missions. Most recently, SES donated a project to the Catholic Diocese, and we have supported other organizations in the past, including a donated installation in Lexington. We also prioritize building local teams in the markets we serve. SES maintains offices and warehouse facilities in our major markets and hires locally whenever possible, rather than transporting crews from other regions. This approach supports job creation and strengthens the local clean energy workforce. In addition, SES has played a leadership role in advancing solar policy in Kentucky for nearly two decades. We founded the Kentucky Solar Energy Industries Association (KYSEIA) and continue to provide significant financial and advocacy support to protect net energy metering and expand distributed generation opportunities across the state. Our President and COO is actively involved in Junior Achievement.

Describe any community benefits commitments your firm will make if selected as the chosen installer (e.g., community service, subsidizing low-to-moderate income solar costs, donations to non-profits, offering internships or solar job training programs, etc.).

If selected as the installer, SES is committed to providing meaningful community benefits. We would be open to donating a modest solar system to support a local nonprofit or community-serving organization. SES would also seek to create workforce opportunities by recruiting local participants into our apprenticeship program and offering hands-on training in solar installation. Additionally, we would welcome the opportunity to host a qualified intern from a local university to provide practical experience in the renewable energy industry. Through these efforts, SES aims to ensure the project provides lasting economic, workforce, and environmental benefits to the local community.

Solarize Lexington
9. Additional Information

Proposer Instructions

Please include any other additional information is relevant to your bid (300 word limit).

Proposing Firm:	Solar Energy Solutions
Additional Information	
Include any other additional information that is relevant to your bid (300 word limit).	<p>Solar Energy Solutions has started its 20th year in business. Over the past 10 years, Solar Energy Solutions has installed around 55 MW of solar and thousands of solar and battery storage systems across Kentucky, the Midwest, and Virginia. Between 2019 and 2025, SES deployed around 11 MWh of backup storage, primarily Tesla Powerwalls. The environmental impact of our work will be substantial over the next 25 years. Solar Energy Solutions is committed to shaping the future of solar energy in Kentucky and beyond. With the launch of our apprenticeship program, expanded project management and O&M services, and the integration of HubSpot and Arrivy, we are well-positioned to support the Lexington Solarize Program and other initiatives. With seven dedicated, highly experienced installation crews in the region, SES can efficiently scale operations to meet increasing demand while maintaining the highest quality standards.</p>

Affirmative Action Plan

All vendors must submit as a part of the proposal package the following items to the Urban County Government:

1. Affirmative Action Plan for his/her firm;
2. Current Work Force Analysis Form;

Failure to submit these items as required may result in disqualification of the submitter from award of the contract

AFFIDAVIT

Comes the Affiant, NICK BOWMAN, and after being first duly sworn, states under penalty of perjury as follows:

1. His/her name is NICK BOWMAN and he/she is the individual submitting the proposal or is the authorized representative of Solar Energy Solutions, LLC, the entity submitting the proposal (hereinafter referred to as "Proposer").

2. Proposer will pay all taxes and fees, which are owed to the Lexington-Fayette Urban County Government at the time the proposal is submitted, prior to award of the contract and will maintain a "current" status in regard to those taxes and fees during the life of the contract.

3. Proposer will obtain a Lexington-Fayette Urban County Government business license, if applicable, prior to award of the contract.

4. Proposer has authorized the Division of Central Purchasing to verify the above-mentioned information with the Division of Revenue and to disclose to the Urban County Council that taxes and/or fees are delinquent or that a business license has not been obtained.

5. Proposer has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky within the past five (5) years and the award of a contract to the Proposer will not violate any provision of the campaign finance laws of the Commonwealth.

6. Proposer has not knowingly violated any provision of Chapter 25 of the Lexington-Fayette Urban County Government Code of Ordinances, known as "Ethics Act."

Continued on next page

7. Proposer acknowledges that "knowingly" for purposes of this Affidavit means, with respect to conduct or to circumstances described by a statute or ordinance defining an offense, that a person is aware or should have been aware that his conduct is of that nature or that the circumstance exists.

8. Proposer will comply with all registration requirements as a contractor where required by Section 5-85 of the Code of Ordinances of the Lexington-Fayette Urban County Government. Proposer will utilize as subcontractors on the contract only contractors who are registered as required by Section 5-85 of the Code of Ordinances. Proposer will maintain a "current" status with regard to all contractor registration requirements during the life of the contract and will ensure that all subcontractors maintain a "current" status with regard to all contractor registration requirements during the life of the contract. Proposer has authorized the Division of Procurement to verify the registration of Bidder and Bidder's subcontractors with the Division of Building Inspection.

Further, Affiant sayeth naught.

Nick Bowman

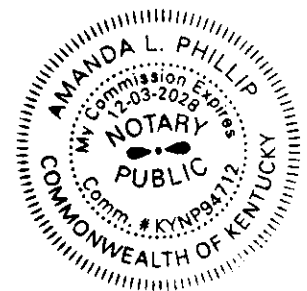
STATE OF Kentucky

COUNTY OF Fayette

The foregoing instrument was subscribed, sworn to and acknowledged before me
by NICK BOWMAN on this the 27th day
of April, 2026

My Commission expires: 12-03-2028

Amanda L. Phillip



**NOTARY PUBLIC, STATE AT LARGE
EQUAL OPPORTUNITY AGREEMENT**

Standard Title VI Assurance

The Lexington Fayette-Urban County Government, (hereinafter referred to as the "Recipient") hereby agrees that as a condition to receiving any Federal financial assistance from the U.S. Department of Transportation, it will comply with Title VI of the Civil Rights Act of 1964, 78Stat.252, 42 U.S.C. 2000d-4 (hereinafter referred to as the "Act"), and all requirements imposed by or pursuant to Title 49, Code of Federal Regulations, U.S. Department of Transportation, Subtitle A, Office of the Secretary, (49 CFR, Part 21) Nondiscrimination in Federally Assisted Program of the Department of Transportation – Effectuation of Title VI of the Civil Rights Act of 1964 (hereinafter referred to as the "Regulations") and other pertinent directives, no person in the United States shall, on the grounds of race, color, national origin, sex, age (over 40), religion, sexual orientation, gender identity, veteran status, or disability be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity for which the Recipient receives Federal financial assistance from the U.S. Department of Transportation, including the Federal Highway Administration, and hereby gives assurance that will promptly take any necessary measures to effectuate this agreement. This assurance is required by subsection 21.7(a) (1) of the Regulations.

The Law

- Title VII of the Civil Rights Act of 1964 (amended 1972) states that it is unlawful for an employer to discriminate in employment because of race, color, religion, sex, age (40-70 years) or national origin.
- Executive Order No. 11246 on Nondiscrimination under Federal contract prohibits employment discrimination by contractor and sub-contractor doing business with the Federal Government or recipients of Federal funds. This order was later amended by Executive Order No. 11375 to prohibit discrimination on the basis of sex.
- Section 503 of the Rehabilitation Act of 1973 states:

The Contractor will not discriminate against any employee or applicant for employment because of physical or mental handicap.

- Section 2012 of the Vietnam Era Veterans Readjustment Act of 1973 requires Affirmative Action on behalf of disabled veterans and veterans of the Vietnam Era by contractors having Federal contracts.
- Section 206(A) of Executive Order 12086, Consolidation of Contract Compliance Functions for Equal Employment Opportunity, states:

The Secretary of Labor may investigate the employment practices of any Government contractor or sub-contractor to determine whether or not the contractual provisions specified in Section 202 of this order have been violated.

The Lexington-Fayette Urban County Government practices Equal Opportunity in recruiting, hiring and promoting. It is the Government's intent to affirmatively provide employment opportunities for those individuals who have previously not been allowed to enter into the mainstream of society. Because of its importance to the local Government, this policy carries the full endorsement of the Mayor, Commissioners, Directors and all supervisory personnel. In following this commitment to Equal Employment Opportunity and because the Government is the benefactor of the Federal funds, it is both against the Urban County Government policy and illegal for the Government to let contracts to companies which knowingly or unknowingly practice discrimination

in their employment practices. Violation of the above mentioned ordinances may cause a contract to be canceled and the contractors may be declared ineligible for future consideration.

Please sign this statement in the appropriate space acknowledging that you have read and understand the provisions contained herein. Return this document as part of your application packet.

Bidders

I/We agree to comply with the Civil Rights Laws listed above that govern employment rights of minorities, women, Vietnam veterans, handicapped and aged persons.



Signature

Solar Energy Solutions

Name of Business

WORKFORCE ANALYSIS FORM

Name of Organization: Solar Energy Solutions

Categories	Total	White (Not Hispanic or Latino)		Hispanic or Latino		Black or African-American (Not Hispanic or Latino)		Native Hawaiian and Other Pacific Islander (Not Hispanic or Latino)		Asian (Not Hispanic or Latino)		American Indian or Alaskan Native (not Hispanic or Latino)		Two or more races (Not Hispanic or Latino)		Total	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Administrators	5	3	2													3	2
Professionals	8	7	1													7	1
Superintendents	11	10	1													10	1
Supervisors	0																
Foremen	0																
Technicians	3	2								1						3	
Protective Service	0																
Para-Professionals	0																
Office/Clerical	0																
Skilled Craft	29	23		3						1							
Service/Maintenance																	
Total:	56															52	4

Prepared by: Nick Bowman Date: 04 / 23 / 2026

(Name and Title)

Revised 2015-Dec-15

**DIRECTOR, DIVISION OF PROCUREMENT
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT
200 EAST MAIN STREET
LEXINGTON, KENTUCKY 40507**

**NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL
EMPLOYMENT OPPORTUNITIES AND DBE CONTRACT PARTICIPATION**

The Lexington-Fayette Urban County Government has a Certified Minority and Women Business Enterprise seventeen percent (17%) minimum goal including minimum subgoals of five percent (5%) for Minority Business Enterprises (MBE) and a subgoal of twelve percent (12%) for Women Business Enterprises (WBE); a three (3%) minimum goal for Certified Veteran-Owned Small Businesses and/or Certified Service- Disabled Veteran Owned Businesses; and a goal of utilizing Disadvantaged Business Enterprises (DBE), where applicable, for government contracts.

For assistance in locating certified DBEs, MBEs, WBEs, VOSBs and/or VOSBs, contact Sherita Miller at 859/258-3320 or by writing the address listed below:

Sherita Miller, MPA, CPSD
Minority Business Enterprise Liaison
Division of Procurement
Lexington-Fayette Urban County Government
200 East Main Street
Lexington, Kentucky 40507
smiller@lexingtonky.gov
859-258-3323

Firm Submitting Proposal: Solar Energy Solutions

Complete Address: 1038 Brentwood Ct B, Lexington, KY 40511
Street City Zip

Contact Name: Nick Bowman Title: Estimating and Proposal Manager

Telephone Number: (859) 618-4849 Fax Number: _____

Email address: NickB@sesre.com



LEXINGTON

MINORITY BUSINESS ENTERPRISE PROGRAM

Sherita Miller, MPA, CPSD
Minority Business Enterprise Liaison
Division of Procurement
Lexington-Fayette Urban County Government
200 East Main Street
Lexington, KY 40507
smiller@lexingtonky.gov
859-258-3323

OUR MISSION: The mission of the Minority Business Enterprise Program (MBEP) is to facilitate the full participation of minority and women owned businesses in the procurement process and to promote economic inclusion as a business imperative essential to the long- term economic viability of Lexington-Fayette Urban County Government.

To that end the urban county council adopted and implemented Resolution 272-2024 – a Certified Minority and Women Business Enterprise seventeen percent (17%) minimum goal including minimum subgoals of five percent (5%) for Minority Business Enterprises (MBE) and a subgoal of twelve percent (12%) for Women Business Enterprises (WBE); a three (3%) minimum goal for Certified Veteran-Owned Small Businesses and/or Certified Service- Disabled Veteran Owned Businesses; and a goal of utilizing Disadvantaged Business Enterprises (DBE), where applicable, for government contracts.

The resolution states the following definitions shall be used for the purposes of reaching these goals:

Certified Disadvantaged Business Enterprise (DBE) – a business in which at least fifty-one percent (51%) is owned, managed and controlled by a person(s) who is socially and economically disadvantaged as define by 49 CFR subpart 26.

Certified Minority Business Enterprise (MBE) – a business in which at least fifty-one percent (51%) is owned, managed and controlled by an ethnic minority (i.e. Black American, Asian American, Hispanic American, Native American)

Certified Women Business Enterprise (WBE) – a business in which at least fifty-one percent (51%) is owned, managed and controlled by a woman.

Certified Veteran-Owned Small Business (VOSB) – a business in which at least fifty-one percent (51%) is owned, managed and controlled by a veteran who served on active duty with the U.S. Army, Air Force, Navy, Marines or Coast Guard.

Certified Service -Disabled Veteran Owned Small Business (SDVOSB) – a business in which at least fifty-one percent (51%) is owned, managed and controlled by a disabled veteran who served on active duty with the U.S. Army, Air Force, Navy, Marines or Coast Guard.

The term “Certified” shall mean the business is appropriately certified, licensed, verified, or validated by an organization or entity recognized by the Division of Procurement as having the appropriate credentials to make a determination as to the status of the business.

The following certifications are recognized and accepted by the MBEP:

Kentucky Transportation Cabinet (KYTC), Disadvantaged Business Enterprise (DBE)

Kentucky Minority and Women Business Enterprise (MWBE)

Women’s Business Enterprise National Council (WBENC)

National Women Business Owners Corporation (NWBOC)

National Minority Supplier Development Council (NMSDC)

Tri-State Minority Supplier Development Council (TSMSSDC)

U.S. Small Business Administration Veteran Small Business Certification (VetCert)

Kentucky Service- Disabled Veteran Owned Small Business (SDVOSB)

To comply with Resolution 272-2024, prime contractors, minority and women business enterprises, veteran owned small businesses, and service-disabled veteran owned small businesses must complete monthly contract compliance audits in the Diverse Business Management Compliance system, <https://lexingtonky.diversitycompliance.com/>

A list of organizations that certify and/or maintain lists of certified businesses (i.e. DBE, MBE, WBE, VOSB and/or SDVOSB) is available upon request by emailing, Sherita Miller, smiller@lexingtonky.gov.



LEXINGTON

LFUCG MWDBE PARTICIPATION FORM

Bid/RFP/Quote Reference RFP 25-2026

The MWDBE and/or veteran subcontractors listed have agreed to participate on this Bid/RFP/Quote. If any substitution is made or the total value of the work is changed prior to or after the job is in progress, it is understood that those substitutions must be submitted to the Division of Procurement for approval immediately. **Failure to submit a completed form may cause rejection of the bid.**

MWBE Company, Name, Address, Phone, Email	DBE/MBE WBE/VOSB/SDVOSB	Work to be Performed	Total Dollar Value of the Work	% Value of Total Contract
1. N/A				
2.				
3.				
4.				

The undersigned company representative submits the above list of MDWBE and veteran firms to be used in accomplishing the work contained in this Bid/RFP/Quote. Any misrepresentation may result in the termination of the contract and/or be subject to applicable Federal and State laws concerning false statements and false claims.

Solar Energy Solutions
Company

04/23/2026
Date

Nick Bowman 
Company Representative

Estimating and Proposal Manager
Title



LEXINGTON

LFUCG MWDBE SUBSTITUTION FORM Bid/RFP/Quote Reference RFP 25-2026

The substituted MWDBE and/or veteran subcontractors listed below have agreed to participate on this Bid/RFP/Quote. These substitutions were made prior to or after the job was in progress. These substitutions were made for reasons stated below and are now being submitted to the Division of Procurement for approval. By the authorized signature of a representative of our company, we understand that this information will be entered into our file for this project. **Note: Form required if a subcontractor is being substituted on a contract.**

SUBSTITUTED DBE/MBE/WBE/VOSB Company Name, Address, Phone, Email	DBE/MBE/WBE/VOSB/SDVOSB Formally Contracted/ Name, Address, Phone, Email	Work to Be Performed	Reason for the Substitution	Total Dollar Value of the Work	% Value of Total Contract
1. N/A					
2.					
3.					
4.					

The undersigned acknowledges that any misrepresentation may result in termination of the contract and/or be subject to applicable Federal and State laws concerning false statements and false claims.

Solar Energy Solutions

Company

04/23/2026

Date

Nick Bowman

Company Representative

Estimating and Proposal Manager

Title



LEXINGTON

DOCUMENTATION REQUIRED FOR GOOD FAITH EFFORTS AND OUTREACH PLANS

As affirmed in Resolution Number 272-2024, the Urban County Council has adopted an annual aspirational goal of utilizing at least seventeen percent (17%) of public funds spend from certain discretionary agreements with certified Minority Business Enterprises (MBEs) and certified Woman Business Enterprises (WBEs); utilizing at least three percent (3%) of public funds from certain discretionary agreements with Certified Veteran-Owned Small Business and Certified Service-Disabled Veteran-Owned Small Businesses (VOSBs); and utilizing Disadvantaged Business Enterprises (DBEs) where applicable. Bidders should make every effort to achieve these goals.

Therefore, as an element of the responsiveness of the bid, all Bidders are required to submit documentation of their good faith and outreach efforts to ensure all businesses, including small and disadvantaged businesses such as minority-, woman-, and veteran-owned businesses, have an equal opportunity to compete for and participate in the performance of any subcontracts resulting from this procurement. Examples of good faith and outreach efforts that satisfy this requirement to encourage the participation of, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs include:

1. Advertised opportunities to participate in the contract in at least two (2) publications of general circulation media; trade and professional association publications; small and minority business or trade publications; and publications or trades targeting minority, women, and disadvantaged businesses not less than fifteen (15) days prior to the deadline for submission of bids to allow, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs to participate.
2. Attended LFUCG Procurement Economic Inclusion Outreach event(s) within the past year to meet new small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs to partner with on LFUCG contracts and procurements.
3. Attended pre-bid/pre-proposal meetings that were scheduled by LFUCG to inform small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs of subcontracting opportunities.
4. Sponsored Economic Inclusion event to provide networking opportunities for prime contractors and small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs.
5. Requested a list of certified small, DBE, MBE, WBE, VOSB and/or SDVOSB subcontractors or suppliers from LFUCG and showed evidence of contacting the companies on the list(s).
6. Contacted organizations that work with small, DBE, MBE, WBE, and VOSB companies for assistance in finding certified DBEs, MBEs, WBEs, VOSB and/or SDVOSBs to work

on this project. Those contacted and their responses must be a part of the bidder's outreach efforts documentation.

7. Sent written notices, by certified mail, email, or facsimile, to qualified, certified small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs soliciting their participation in the contract not less than seven (7) days prior to the deadline for submission of bids to allow them to participate effectively.
8. Followed up initial solicitations by contacting small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs via tailored communications to determine their level of interest.
9. Provided the interested small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs with adequate and timely information about the plans, specifications, and requirements of the contract.
10. Selected portions of the work to be performed by small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs in order to increase the likelihood of subcontracting participation. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate small, DBE, MBE, WBE, VOSB and/or SDVOSB participation, even when the prime contractor may otherwise perform these work items with its own workforce.
11. Negotiated in good faith with interested small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs, not rejecting them as unqualified without sound reasons based on a thorough investigation of their capabilities. Any rejection must be so noted in writing with a description as to why an agreement could not be reached.
12. Included documentation of quotations received from interested small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs that were not used due to uncompetitive pricing or were rejected as unacceptable and/or copies of responses from firms indicating that they would not be submitting a bid.
 - a. Bidder has to submit sound reasons why the quotations were considered unacceptable. The fact that the bidder has the ability and/or desire to perform the contract work with its own forces will not be considered a sound reason for rejecting a small business', DBE's MBE's, WBE's, VOSB's and/or SDVOSB's quote. Nothing in this provision shall be construed to require the bidder to accept unreasonable quotes in order to satisfy the participation goals.
13. Made an effort to offer assistance to or refer interested small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs to obtain the necessary equipment, supplies, materials, insurance and/or bonding to satisfy the work requirements of the bid proposal.

14. Made efforts to expand the search for small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs beyond the usual geographic boundaries.
15. Other – any other evidence that the bidder submits that may demonstrate that the bidder has made reasonable efforts to include small, DBE, MBE, WBE, VOSB and/or SDVOSB participation.

Bidder must document, with specificity, each of the efforts it made to include small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs as subcontractors in the procurement, including the date on which each effort was made, the medium through which each effort was made, and the outcome of each effort.

Note: Failure to submit the documentation requested in this section may be cause for rejection of bid. Bidders may include any other documentation deemed relevant to this requirement which is subject to review by the MBE Liaison. Documentation of Good Faith and Outreach Efforts must be submitted with the Bid, regardless of the proposed level of small, DBE, MBE, WBE, VOSB and/or SDVOSB participation in the procurement. If the Good Faith and Outreach Effort documentation is not submitted with the bid response, the bid may be rejected.

OUTREACH EFFORTS EVALUATION

Outreach efforts demonstrated by the bidder or respondent will be evaluated on a pass/fail basis.

ATTACHMENT A – SMALL AND DISADVANTAGED, MINORITY-, WOMEN-, AND VETERAN-OWNED BUSINESS OUTREACH PLAN

Proposer Name:	<u>Solar Energy Solutions</u>	Date:	<u>04/23/2026</u>
Project Name:	<u>Solarize Lexington</u>	Project Number:	<u>RFP 25-2026</u>
Contact Name:	<u>Nick Bowman</u>	Telephone:	<u>859 - 618 - 4849</u>
Email:	<u>NickB@sesre.com</u>		

The mission of the Minority Business Enterprise Program is to facilitate the full participation of disadvantaged businesses, minority-, women-, veteran-, and service-disabled veteran-owned businesses in the procurement process and to promote economic inclusion as a business imperative essential to the long-term economic viability of Lexington-Fayette Urban County Government.

To that end, small and disadvantaged businesses, including minority-, woman-, veteran-, and service-disabled veteran-owned businesses, must have an equal opportunity to be utilized in the performance of contracts with public funds spent from certain discretionary agreements. By submitting its offer, Bidder/Proposer certifies that it has taken, and if there are further opportunities will take, reasonable steps to ensure that small and disadvantaged businesses, including minority-, woman-, veteran-, and service-disabled veteran-owned businesses, are provided an equal opportunity to compete for and participate in the performance of any subcontracts resulting from this procurement.

The information submitted in response to this clause will not be considered in any scored evaluation. Failure to submit this form may cause the bid or proposal to be rejected.

Is the Bidder/ Proposer a certified firm? Yes No

If yes, indicate all certification type(s):

DBE MBE WBE SBE VOSB/SDVOSB

and supply a copy of the certificate and/or certification letter if not currently listed on the city's Minority Business Enterprise Program's (MBEP) certified list.

1. Include a list of firms that Bidder/ Proposer has had a contractual relationship with within the last two years that are minority-owned, woman-owned, veteran-owned or small businesses, regardless of their certification status.

2. Does Bidder/Proposer foresee any subcontracting opportunities for this procurement?

Yes No

If no, please explain why in the field below. Do not complete the rest of this form and submit this first page with your bid and/or proposal. (Click or tap here to enter text.)

In the interest of ensuring a competitive quote and staying within timeline expectations, SES would typically avoid involving other firms. If MWDBE participating is desired for this project, SES can arrange a scope of work to be performed by others for an additional administrative fee. If yes, please complete the following pages and submit all pages with your bid and/or proposal.

Describe the steps Bidder/Proposer took to solicit small and disadvantaged businesses, including MBEs, WBEs, VOSBs, and SDVOSBs, for subcontracting opportunities for this procurement.

3. Check the good faith and outreach efforts the Bidder/Proposer used to encourage the participation of small and disadvantaged businesses including, MBEs, WBEs, VOSBs and SDVOSBs:

- Bidder placed advertisements in search of prospective small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs for the solicitation.
- Bidder attended LFUCG Procurement Economic Inclusion Outreach event(s) within the past year.
- Bidder attended pre-bid and/or pre-proposal meetings for this solicitation.
- Bidder sponsored an Economic Inclusion Outreach event.
- Bidder requested a list of certified small, DBE, MBE, WBE, VOSB and/or SDVOSB subcontractors or suppliers from LFUCG.
- Bidder contacted organizations that work with small, DBE, MBE, WBE, VOSB and/or SDVOSB companies.
- Bidder sent written notices to certified small, DBE, MBE, WBE, VOSB and SDVOSB businesses.
- Bidder followed up to initial solicitations with interested small, DBE, MBE, WBE, VOSB and/or SDVOSB.
- Bidder provided small, DBE, MBE, WBE, VOSB and/or SDVOSB businesses interested in performing the solicited work with prompt access to the plans, specifications, scope of work, and requirements of the solicitation.
- Bidder made efforts to segment portions of the work to be performed by small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs, including dividing sub-bid/partnership opportunities into economically feasible units/parcels, to facilitate participation.

- Bidder negotiated in good faith with interested small, DBE, MBE, WBE, VOSB and/or SDVOSB businesses.
- Bidder provided adequate rationale for rejecting any small business', DBEs, MBEs, WBEs, VOSBs or SDVOSBs for lack of qualifications.
- Bidder offered assistance in obtaining bonding, insurance, financial, equipment, or other resources to small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs, in an effort to assist them in meeting project requirements.
- Bidder made efforts to expand the search for small businesses, DBEs MBEs, WBEs, VOSBs and/or SDVOSBs beyond the usual geographic boundaries.
- Bidder made other reasonable efforts to include small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs participation.

4. Bidder/Proposer must include documentation, including the date each effort was made, the medium through which each effort was made, and the outcome of each effort with this form, regardless of the level of small, DBE, MBE, WBE, VOSB and/or SDVOSB participation. Examples of required documentation include copies of email communications, copies of newspaper advertisements, or copies of quotations received from interested small businesses, DBEs, MBEs, WBEs, VOSBs or SDVOSBs.

 (Click or tap here to enter text.)

For detailed information regarding outreach efforts that satisfy the MBE Program's requirements, please see "Documentation Required for Good Faith Efforts and Outreach Plans" page.

Note: The Bidder/Proposer must be willing to report the identity of each subcontractor and the value of each subcontract to MBEP if awarded a contract from this procurement.

Failure to submit the documentation requested may be cause for rejection of the bid. Bidders may include any other documentation deemed relevant to this requirement, which is subject to review by the MBE Liaison. Documentation of Good Faith and Outreach Efforts must be submitted with the bid, regardless of the proposed level of SBEs, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs participation in the procurement. If the Good Faith and Outreach Effort Form and associated documentation is not submitted with the bid response, the bid may be rejected.

The undersigned acknowledges that all information is accurate. Any misrepresentations may result in termination of the contract and/or be subject to applicable Federal and State laws concerning false statements and claims.

Solar Energy Solutions

Company

04/23/2026

Date

Nick Bowman

Company Representative

Estimating and Proposal Manager

Title

GENERAL PROVISIONS

1. Each Respondent shall comply with all Federal, State & Local regulations concerning this type of service or good.

The Respondent agrees to comply with all statutes, rules, and regulations governing safe and healthful working conditions, including the Occupational Health and Safety Act of 1970, *29 U.S.C. 650 et. seq.*, as amended, and KRS Chapter 338. The Respondent also agrees to notify the LFUCG in writing immediately upon detection of any unsafe and/or unhealthful working conditions at the job site. The Respondent agrees to indemnify, defend and hold the LFUCG harmless from all penalties, fines or other expenses arising out of the alleged violation of said laws.

2. Failure to submit ALL forms and information required in this RFP may be grounds for disqualification.
3. Addenda: All addenda and IonWave Q&A, if any, shall be considered in making the proposal, and such addenda shall be made a part of this RFP. Before submitting a proposal, it is incumbent upon each proposer to be informed as to whether any addenda have been issued, and the failure to cover in the bid any such addenda may result in disqualification of that proposal.
4. Proposal Reservations: LFUCG reserves the right to reject any or all proposals, to award in whole or part, and to waive minor immaterial defects in proposals. LFUCG may consider any alternative proposal that meets its basic needs.
5. Liability: LFUCG is not responsible for any cost incurred by a Respondent in the preparation of proposals.
6. Changes/Alterations: Respondent may change or withdraw a proposal at any time prior to the opening; however, no oral modifications will be allowed. Only letters, or other formal written requests for modifications or corrections of a previously submitted proposal which is addressed in the same manner as the proposal, and received by LFUCG prior to the scheduled closing time for receipt of proposals, will be accepted. The proposal, when opened, will then be corrected in accordance with such written request(s), provided that the written request is contained in a sealed envelope which is plainly marked "modifications of proposal".
7. Clarification of Submittal: LFUCG reserves the right to obtain clarification of any point in a bid or to obtain additional information from a Respondent.
8. Bribery Clause: By his/her signature on the bid, Respondent certifies that no employee of his/hers, any affiliate or Subcontractor, has bribed or attempted to bribe an officer or employee of the LFUCG.

9. Additional Information: While not necessary, the Respondent may include any product brochures, software documentation, sample reports, or other documentation that may assist LFUCG in better understanding and evaluating the Respondent's response. Additional documentation shall not serve as a substitute for other documentation which is required by this RFP to be submitted with the proposal,
10. Ambiguity, Conflict or other Errors in RFP: If a Respondent discovers any ambiguity, conflict, discrepancy, omission or other error in the RFP, it shall immediately notify LFUCG of such error in writing and request modification or clarification of the document if allowable by the LFUCG.
11. Agreement to Bid Terms: In submitting this proposal, the Respondent agrees that it has carefully examined the specifications and all provisions relating to the work to be done attached hereto and made part of this proposal. By acceptance of a Contract under this RFP, proposer states that it understands the meaning, intent and requirements of the RFP and agrees to the same. The successful Respondent shall warrant that it is familiar with and understands all provisions herein and shall warrant that it can comply with them. No additional compensation to Respondent shall be authorized for services or expenses reasonably covered under these provisions that the proposer omits from its Proposal.
12. Cancellation: If the services to be performed hereunder by the Respondent are not performed in an acceptable manner to the LFUCG, the LFUCG may cancel this contract for cause by providing written notice to the proposer, giving at least thirty (30) days notice of the proposed cancellation and the reasons for same. During that time period, the proposer may seek to bring the performance of services hereunder to a level that is acceptable to the LFUCG, and the LFUCG may rescind the cancellation if such action is in its best interest.

A. Termination for Cause

- (1) LFUCG may terminate a contract because of the contractor's failure to perform its contractual duties
- (2) If a contractor is determined to be in default, LFUCG shall notify the contractor of the determination in writing, and may include a specified date by which the contractor shall cure the identified deficiencies. LFUCG may proceed with termination if the contractor fails to cure the deficiencies within the specified time.
- (3) A default in performance by a contractor for which a contract may be terminated shall include, but shall not necessarily be limited to:
 - (a) Failure to perform the contract according to its terms, conditions and specifications;
 - (b) Failure to make delivery within the time specified or according

- to a delivery schedule fixed by the contract;
- (c) Late payment or nonpayment of bills for labor, materials, supplies, or equipment furnished in connection with a contract for construction services as evidenced by mechanics' liens filed pursuant to the provisions of KRS Chapter 376, or letters of indebtedness received from creditors by the purchasing agency;
 - (d) Failure to diligently advance the work under a contract for construction services;
 - (e) The filing of a bankruptcy petition by or against the contractor; or
 - (f) Actions that endanger the health, safety or welfare of the LFUCG or its citizens.

B. At Will Termination

Notwithstanding the above provisions, the LFUCG may terminate this contract at will in accordance with the law upon providing thirty (30) days written notice of that intent, Payment for services or goods received prior to termination shall be made by the LFUCG provided these goods or services were provided in a manner acceptable to the LFUCG. Payment for those goods and services shall not be unreasonably withheld.

13. **Assignment of Contract:** The contractor shall not assign or subcontract any portion of the Contract without the express written consent of LFUCG. Any purported assignment or subcontract in violation hereof shall be void. It is expressly acknowledged that LFUCG shall never be required or obligated to consent to any request for assignment or subcontract; and further that such refusal to consent can be for any or no reason, fully within the sole discretion of LFUCG.
14. **No Waiver:** No failure or delay by LFUCG in exercising any right, remedy, power or privilege hereunder, nor any single or partial exercise thereof, nor the exercise of any other right, remedy, power or privilege shall operate as a waiver hereof or thereof. No failure or delay by LFUCG in exercising any right, remedy, power or privilege under or in respect of this Contract shall affect the rights, remedies, powers or privileges of LFUCG hereunder or shall operate as a waiver thereof.
15. **Authority to do Business:** The Respondent must be a duly organized and authorized to do business under the laws of Kentucky. Respondent must be in good standing and have full legal capacity to provide the services specified under this Contract. The Respondent must have all necessary right and lawful authority to enter into this Contract for the full term hereof and that proper corporate or other action has been duly taken authorizing the Respondent to enter into this Contract. The Respondent will provide LFUCG with a copy of a corporate resolution authorizing this action and a letter from an attorney confirming that the proposer is authorized to do business in the State of Kentucky if requested. All proposals must

be signed by a duly authorized officer, agent or employee of the Respondent.

16. **Governing Law:** This Contract shall be governed by and construed in accordance with the laws of the Commonwealth of Kentucky. In the event of any proceedings regarding this Contract, the Parties agree that the venue shall be the Fayette County Circuit Court or the U.S. District Court for the Eastern District of Kentucky, Lexington Division. All parties expressly consent to personal jurisdiction and venue in such Court for the limited and sole purpose of proceedings relating to this Contract or any rights or obligations arising thereunder. Service of process may be accomplished by following the procedures prescribed by law.
17. **Ability to Meet Obligations:** Respondent affirmatively states that there are no actions, suits or proceedings of any kind pending against Respondent or, to the knowledge of the Respondent, threatened against the Respondent before or by any court, governmental body or agency or other tribunal or authority which would, if adversely determined, have a materially adverse effect on the authority or ability of Respondent to perform its obligations under this Contract, or which question the legality, validity or enforceability hereof or thereof.
18. Contractor understands and agrees that its employees, agents, or subcontractors are not employees of LFUCG for any purpose whatsoever. Contractor is an independent contractor at all times during the performance of the services specified.
19. If any term or provision of this Contract shall be found to be illegal or unenforceable, the remainder of the contract shall remain in full force and such term or provision shall be deemed stricken.
20. Contractor [or Vendor or Vendor's Employees] will not appropriate or make use of the Lexington-Fayette Urban County Government (LFUCG) name or any of its trade or service marks or property (including but not limited to any logo or seal), in any promotion, endorsement, advertisement, testimonial or similar use without the prior written consent of the government. If such consent is granted LFUCG reserves the unilateral right, in its sole discretion, to immediately terminate and revoke such use for any reason whatsoever. Contractor agrees that it shall cease and desist from any unauthorized use immediately upon being notified by LFUCG.



Signature

04/23/2026

Date



SOLAR ENERGY
Solutions

SUBMITTED TO:



LEXINGTON



EXECUTIVE SUMMARY & **REQUIRED ATTACHMENTS**



Solar Energy Solutions (SES) is among the region's largest and most experienced solar design, engineering, and construction companies with projects in Virginia, Indiana, Kentucky, Ohio, and the surrounding states. Founded in Kentucky in 2006, Solar Energy Solutions has more than 3,250 active photovoltaic and battery storage projects in the residential, commercial, and utility sectors.



SOLAR ENERGY SOLUTIONS

COVER LETTER/EXECUTIVE SUMMARY

Solar Energy Solutions (SES) respectfully submits this proposal to the **City of Lexington** for consideration as a selected installer for the **Solarize Lexington 2026 program**.

SES's proposal emphasizes **high-quality Tier-1 equipment, integrated monitoring platforms, and strong warranty coverage** to ensure long-term system performance and reliability.

SES offers Solarize Louisville participants a cost-effective, high-quality solar solution centered on **NE Solar 410-watt modules paired with Tesla inverters**, delivering strong performance, reliability, and competitive pricing. This base configuration allows SES to provide excellent value while maintaining the equipment quality and system performance expected from an experienced regional installer. For participants seeking enhanced aesthetics or premium system integration, SES also offers high-efficiency **Qcells Modules** assembled in nearby Georgia or **Tesla Solar systems with low-profile Zep racking**, providing a sleek appearance and durable design. Together, these options ensure Solarize Louisville participants have access to **affordable, high-quality solar installations with flexible equipment choices** that support long-term energy savings and program adoption.

SES has extensive experience supporting **community solar campaigns and Solarize programs**, having participated in **12 Solarize initiatives**, including Solarize Lexington, Solar Over Louisville, SUN Indianapolis, Solarize Bloomington, and Solarize Southwest Virginia. These programs demonstrate our ability to manage high volumes of inquiries, provide clear proposals, and deliver reliable installations on schedule.

SES shares the goals of the Solarize Lexington program—to expand access to solar, reduce energy costs, and strengthen Louisville's clean-energy economy. Our Solarize experience allows us to streamline site assessments, proposal development, and installation scheduling, helping deliver **cost-competitive pricing for program participants**.

SOLAR ENERGY SOLUTIONS COVER LETTER/EXECUTIVE SUMMARY

Why Solar Energy Solutions for Solarize Lexington

Key strengths include:

- **Solarize Experience** – Participation in 12 successful Solarize campaigns across the region.
- **Cost-Effective Installations** – Streamlined processes that deliver competitive Solarize pricing.
- **Quality Equipment & Warranties** – Trusted Tier-1 modules, advanced inverters, and strong warranties.
- **Regional Workforce Capacity** – Local crews and warehouse operations supporting efficient project delivery.
- **Community Outreach** – Experience leading solar education workshops and community engagement.

Local Workforce and Community Impact

Solar Energy Solutions supports the communities where we operate through **local hiring, nonprofit partnerships, and clean-energy advocacy**. With offices and warehouse facilities in Lexington and across the region, SES prioritizes hiring locally and strengthening the regional clean-energy workforce.

SES has supported nonprofit organizations through **donated solar installations** that reduce operating costs and allow organizations to focus resources on their missions.

In **2023, SES launched a Registered Apprenticeship Program with the Kentucky Registered Apprenticeship Program (RAP)** to train the next generation of solar professionals. Apprentices receive **paid hands-on experience, technical instruction, and nationally recognized credentials**, creating a pathway to careers in renewable energy.

SES also helped found the **Kentucky Solar Energy Industries Association (KYSEIA)** and continues to support policies that expand access to solar across the state.

SOLAR ENERGY SOLUTIONS

COVER LETTER/EXECUTIVE SUMMARY

If selected for Solarize Lexington, SES would welcome opportunities to **support a community nonprofit with a donated solar installation and to promote our apprenticeship and workforce training programs to the Lexington community.**

Solar Energy Solutions appreciates the opportunity to submit this proposal and looks forward to partnering with the City of Lexington and Solarize Lexington to expand solar adoption and deliver reliable renewable energy solutions across the region.

Thank you for your consideration.
Solar Energy Solutions

CERTIFICATIONS & LICENCES

ATTACHMENT A

Our staff is highly trained and specialized in the engineering and installation of photovoltaic and battery storage systems. Our focus on expertise and education is reflected in our staff carrying relevant licenses and certifications, including PE licenses, electrical licenses, solar-specific NABCEP certifications, and more. Our commitment extends to creating our solar electrical apprenticeship program, which has been approved by Kentucky, Indiana, Ohio, and Virginia.

Solar Energy Solutions is proud to employ the highest-quality team in our region. We continually strive to improve our skill set and knowledge base. Our certifications and partnerships include:

- 8 NABCEP Certified PV Installers
- 1 NABCEP Certified PV Designer
- 5 Master Electricians
- Certified Professional Engineers
- SEIA Member nationwide and locally
- Tesla Energy Premier Partner
- Solar Edge Certified Partner
- Amicus Member
- SPAN Certified Partner

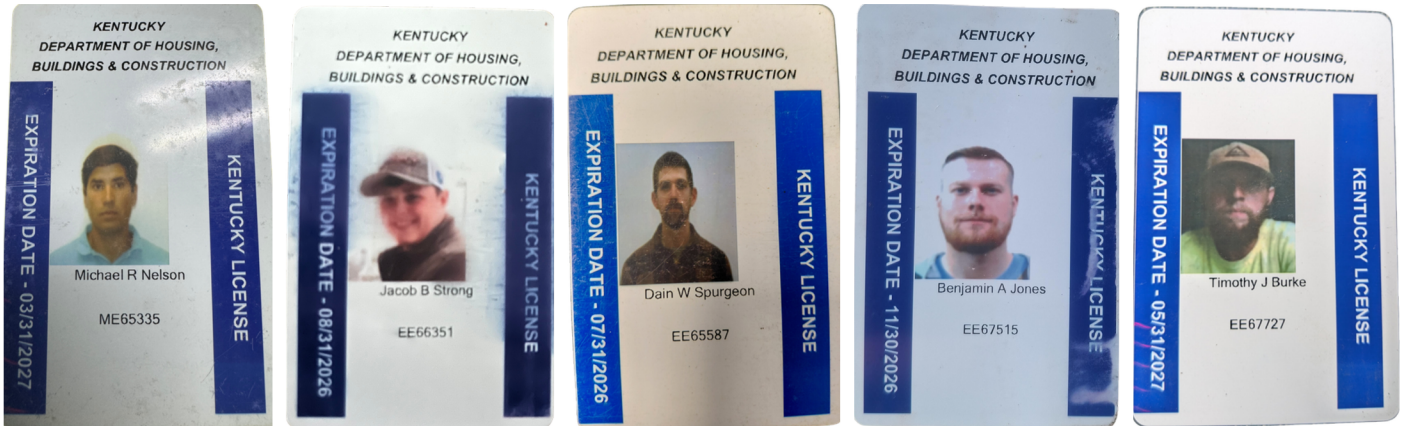


SES take pride in being an employee-owned company (ESOP), and an active member of Amicus, SEIA, and numerous local and regional energy organizations.



CERTIFICATIONS & LICENSES

ATTACHMENT A



Kentucky Secretary of State
Michael G. Adams



- Business Entity Search
- File Annual Report
- Form an LLC
- Business Registration Portal
- Name Availability Search
- Business Forms Library
- Prepaid Account Status
- Current Officer Search
- Founding Officer Search
- Registered Agent Search
- Validate Certificate of Existence/Authorization

SOLAR ENERGY SOLUTIONS LLC

File Amended Annual Report	Change Address or Registered Agent		
File Certificate of Assumed Name (DBA)	File Dissolution	Upload a filing	File Registered Agent Resignation
Print & Mail	Subscribe to changes made to this entity	Certificate of Good Standing	

General Information

Organization Number	0638456
Name	SOLAR ENERGY SOLUTIONS LLC
Profit or Non-Profit	Unknown
Company Type	KLC - Kentucky Limited Liability Company
Industry	Construction Special Trade Contractors
Number of Employees	Medium (20-99)
Primary County	Fayette
Status	A - Active
Standing	G - Good
State	KY
File Date	5/10/2006
Organization Date	5/10/2006
Last Annual Report	2/18/2025
Principal Office	1038 BRENTWOOD CT. SUITE B LEXINGTON, KY 40511
Managed By	Managers
Registered Agent	MATTHEW PARTYMILLER 1038 BRENTWOOD CT.

MATERIAL SPECIFICATION SHEETS

ATTACHMENT B



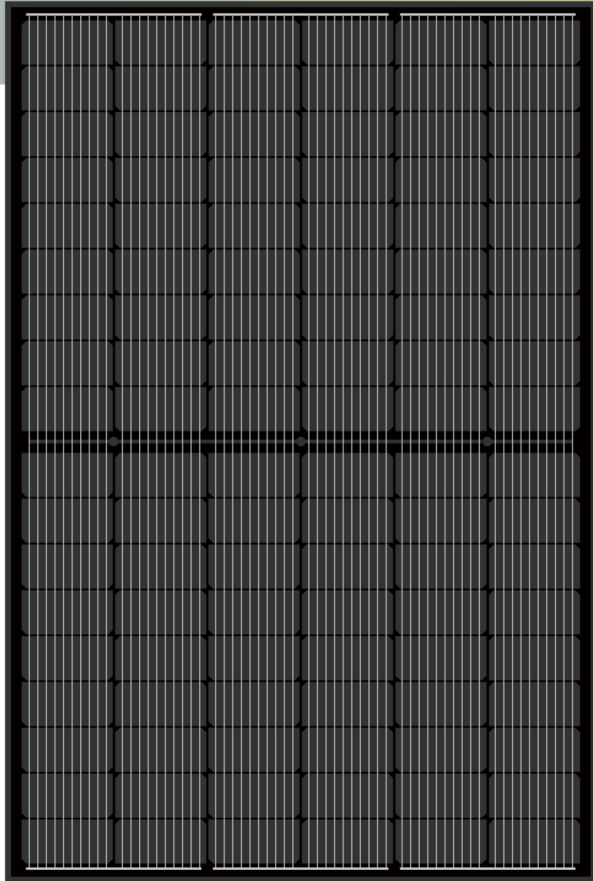


FROM STRENGTH TO STRENGTH IN NATURE

NESE 410-54MH-M10

MONO PERC HALF-CELL BLACK MODULE

FROM CAMBODIA



KEY FEATURES



High efficiency PERC

A high efficiency 182 (M10) PERC solar cell with 10 busbars technology to ensure the efficiency of the solar module up to 20.97% and stable operation.



0-5W tolerance

0-5W positive power tolerance.



Excellent performance with weak light

More power output with a weak light condition-through advanced glass and solar cells.



Wind/Snow load

Wind load 2400 pa, snow load 5400 pa.



Pid Free

Excellent Anti-PID performance, minimized the degradation of power.



Resistance of extreme environment conditions

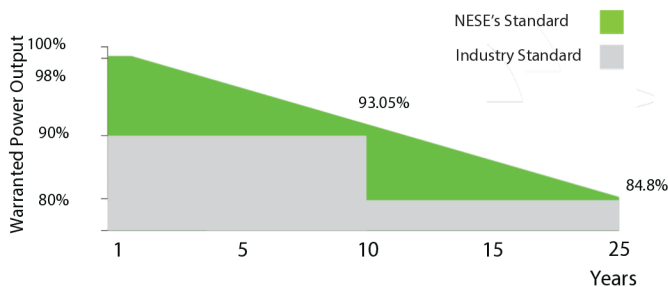
High Salt Mist and Ammonia resistance certified by TUV.

INSURED BY



LINEAR PERFORMANCE WARRANTY

12 years product warranty. 25 years linear power warranty.



MANAGEMENT

SYSTEM

CERTIFICATES

ISO 9001:2015/QUALITY MANAGEMENT SYSTEM
 ISO 14001:2015/STANDARDS FOR ENVIRONMENTAL MANAGEMENT SYSTEM

PRODUCT CERTIFICATES

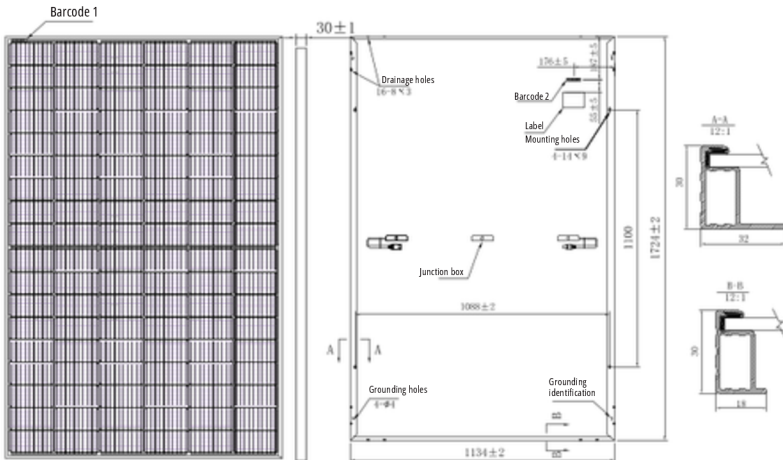
IEC 61215/IEC 61730:VDE/CE/CEC AU
 UL 61730: CSA



SPECIFICATIONS

Module type	NESE 390-54MH-M10		NESE395-54MH-M10		NESE400-54MH-M10		NESE405-54MH-M10		NESE410-54MH-M10	
	STC	(NOCT)	STC	(NOCT)	STC	(NOCT)	STC	(NOCT)	STC	(NOCT)
Maximum power(Pmax)	390Wp	292Wp	395Wp	295Wp	400Wp	299Wp	405Wp	303Wp	410Wp	306Wp
Maximum power voltage(Vmp)	30.5V	28.3V	30.7V	28.5V	30.9V	28.7V	31.1V	28.9V	31.3V	29.1V
Maximum power current (Imp)	12.79A	10.29A	12.87A	10.35A	12.95A	10.41A	13.03A	10.47A	13.10A	10.53A
Open-circuit voltage(Voc)	36.7V	34.3V	36.9V	34.5V	37.1V	34.7V	37.3V	34.8V	37.5V	35.0V
Short-circuit current(Isc)	13.56A	10.95A	13.63A	11.01A	13.70A	11.06A	13.77A	11.12A	13.84A	11.18A
Module efficiency STC (%)	19.95%		20.20%		20.46%		20.72%		20.97%	
Operating temperature(°C)	-40°C ~ 85°C									
Maximum system voltage	1500(IEC&UL)									
Maximum series fuse rating	25A									
Sorting power tolerance	0 ~ +3%									
Temperature coefficients of Pmax	-0.35%/°C									
Temperature coefficients of Voc	-0.29%/°C									
Temperature coefficients of Isc	+0.05%/°C									
Nominal operating cell temperature(NOCT)	44 ± 2°C									

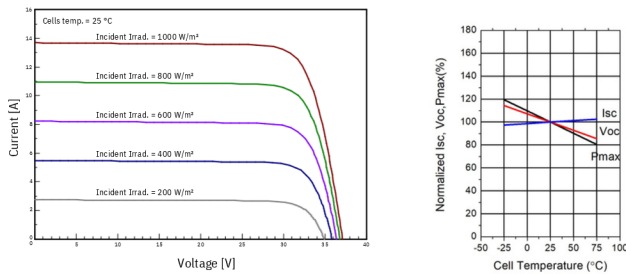
ENGINEERING DRAWING



MATERIAL CHARACTERISTICS

Number of cell	108 (6 * 18)
Dimensions	1724*1134*30
Weight	20.5+/-1kg
Front glass	3.2mm, anti-reflection Coating, high transmission, low iron, tempered glass
Frame	Anodized aluminium alloy
Junction box	IP68 rated 3 Diodes

ELECTRICAL PERFORMANCE & TEMPERATURE DEPENDENCE



Output cables	12 awg, length: 350-1200 mm (13.78-47.24 inch) or Customized length
---------------	---

Connectors MC4-Compatible or Customized

PACKAGING CONFIGURATION

40HQ	936
------	-----

Electrical performance & temperature dependence
 Current-voltage & power-voltage curves (400W)
 temperature dependence of Isc, Voc, Pmax

Tesla Solar Inverter with Site Controller

Tesla Solar Inverter completes the Tesla home solar system, converting DC power from solar to AC power for home consumption. Tesla's renowned expertise in power electronics has been combined with robust safety features and a simple installation process to produce an outstanding solar inverter that is compatible with both Solar Roof and traditional solar panels. Once installed, homeowners use the Tesla mobile app to manage their solar system and monitor energy consumption, resulting in a truly unique ecosystem experience.

KEY FEATURES

- Built on Powerwall technology for exceptional efficiency and reliability
- Wi-Fi, Ethernet, and cellular connectivity with easy over-the-air updates
- Designed to integrate with Tesla Powerwall and Tesla App
- 0.5% revenue-grade metering for Solar Renewable Energy Credit (SREC) programs included



Tesla Solar Inverter Technical Specifications

Electrical Specifications: Output (AC)	Model Number	1538000-xx-y			
	Output (AC) ¹	3.8 kW	5 kW	5.7 kW	7.6 kW
	Nominal Power	3,800 W	5,000 W	5,700 W	7,600 W
	Maximum Apparent Power	3,840 VA	5,040 VA	6,000 VA	7,680 VA
	Maximum Continuous Current	16 A	21 A	24 A	32 A
	Breaker (Overcurrent Protection)	20 A	30 A	30 A	40 A
	Nominal Power Factor	1 - 0.9 (leading / lagging)			
	THD (at Nominal Power)	<5%			

Electrical Specifications: Input (DC)	MPPT	4
	Input Connectors per MPPT	1-2-1-2
	Maximum Input Voltage	600 VDC
	DC Input Voltage Range	60 - 550 VDC
	DC MPPT Voltage Range	60 - 480 VDC ¹
	Maximum Current per MPPT (I_{MP})	13 A ²
	Maximum Short Circuit Current per MPPT (I_{SC})	17 A ²

¹Maximum current.

²Where the DC input current exceeds an MPPT rating, jumpers can be used to allow a single MPPT to intake additional DC current up to 26 A I_{MP} / 34 A I_{SC} .

Performance Specifications	Peak Efficiency	98.6% at 240 V
	CEC Efficiency	98.0% at 240 V
	Allowable DC/AC Ratio	1.7
	Customer Interface	Tesla Mobile App
	Internet Connectivity	Wi-Fi (2.4 GHz, 802.11 b/g/n), Ethernet, Cellular (LTE/4G) ³
	Revenue Grade Meter	Revenue Accurate (+/- 0.5%)
	AC Remote Metering Support	Wi-Fi (2.4 GHz, 802.11 b/g/n), RS-485
	Protections	Integrated arc fault circuit interrupter (AFCI), Rapid Shutdown
	Supported Grid Types	60 Hz, 240 V Split Phase
	Warranty	12.5 years

³Cellular connectivity subject to network operator service coverage and signal strength.

Solar Shutdown Device Technical Specifications

The Solar Shutdown Device is a Mid-Circuit Interrupter (MCI) and is part of the PV system rapid shutdown (RSD) function in accordance with Article 690 of the applicable NEC. When paired with Tesla Solar Inverter, solar array shutdown is initiated by any loss of AC power.

Electrical Specifications	Model	MCI-1	MCI-2
	Nominal Input DC Current Rating (I_{MP})	12 A	13 A
	Maximum Input Short Circuit Current (I_{SC})	19 A	17 A
	Maximum System Voltage (PVHCS)	600 V DC	1000 V DC ⁶
	⁶ Maximum System Voltage is limited by Tesla Solar Inverter to 600 V DC.		
RSD Module Performance	Maximum Number of Devices per String	5	5
	Control	Power Line Excitation	Power Line Excitation
	Passive State	Normally Open	Normally Open
	Maximum Power Consumption	7 W	7 W
	Warranty	25 years	25 years
Environmental Specifications	Operating Temperature	-40°C to 50°C (-40°F to 122°F)	-45°C to 70°C (-49°F to 158°F)
	Storage Temperature	-30°C to 70°C (-22°F to 158°F)	-30°C to 70°C (-22°F to 158°F)
	Enclosure Rating	NEMA 4X / IP65	NEMA 4X / IP65
Mechanical Specifications	Electrical Connections	MC4 Connector	MC4 Connector
	Housing	Plastic	Plastic
	Dimensions	125 x 150 x 22 mm (5 x 6 x 1 in)	173 x 45 x 22 mm (6.8 x 1.8 x 1 in)
	Weight	350 g (0.77 lb)	120 g (0.26 lb)
	Mounting Options	ZEP Home Run Clip M4 Screw (#10) M8 Bolt (5/16") Nail / Wood screw	Wire Clip
Compliance Information	Certifications	UL 1741 PVRSE, UL 3741, PVRSA (Photovoltaic Rapid Shutdown Array)	
	RSD Initiation Method	PV System AC Breaker or Switch	

UL 3741 PV Hazard Control (and PVRSA) Compatibility

The following categories of solar module meet the UL 3741 PVHCS listing when installed with Tesla Solar Inverter and Solar Shutdown Devices.

Tesla Solar Roof

[PV Hazard Control System: BIPV compliance document](#)

Tesla or Hanwha (Q.Peak Duo BLK or BLK-G6+) Modules certified for use with ZEP racking

[PV Hazard Control System: ZS PVHCS compliance document](#)

Other module and racking combinations

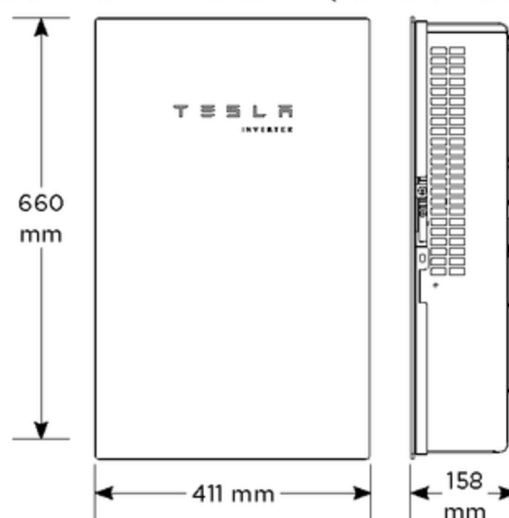
[PV Hazard Control System: Generic PV Array compliance document](#)

Tesla Solar Inverter Technical Specifications

Mechanical Specifications

Dimensions

660 mm x 411 mm x 158 mm (26 in x 16 in x 6 in)



Weight

52 lb⁴

Mounting Options

Wall mount (bracket)

⁴Door and bracket can be removed for a mounting weight of 37 lb.

Environmental Specifications

Operating Temperature

-30°C to 45°C (-22°F to 113°F)⁵

Operating Humidity (RH)

Up to 100%, condensing

Storage Temperature

-30°C to 70°C (-22°F to 158°F)

Maximum Elevation

3000 m (9843 ft)

Environment

Indoor and outdoor rated

Enclosure Rating

Type 3R

Ingress Rating

IP55 (Wiring compartment)

Pollution Rating

PD2 for power electronics and terminal wiring compartment, PD3 for all other components

Operating Noise @ 1 m

< 40 db(A) nominal, < 50 db(A) maximum

⁵Performance may be de-rated to 6.2 kW at 240 V when operating at temperatures greater than 45°C.

Compliance Information

Grid Certifications

UL 1741, UL 1741 SA, UL 1741 SB, UL 1741 PCS, IEEE 1547-2018, IEEE 1547.1

Safety Certifications

UL 1741 PVRSS, UL 1699B, UL 1998 (US), UL 3741

Emissions

EN 61000-6-3 (Residential), FCC 47CFR15.109 (a)

Q.TRON BLK M-G2+ SERIES



415 - 440 Wp | 108 Cells
22.5% Maximum Module Efficiency

MODEL Q.TRON BLK M-G2+



High performance Qcells N-type solar cells

Q.ANTUM NEO Technology with optimized module layout boosts module efficiency up to 22.5%.



A reliable investment

Inclusive 25-year product warranty and 25-year linear performance warranty¹.



Enduring high performance

Long-term yield security with Anti LeTID Technology, Anti PID Technology², Hot-Spot Protect.



Extreme weather rating

High-tech aluminium alloy frame, certified for high snow (8100 Pa) and wind loads (3600 Pa).



Innovative all-weather technology

Optimal yields, whatever the weather with excellent low-light and temperature behaviour.



The most thorough testing programme in the industry

Qcells is the first solar module manufacturer to pass the most comprehensive quality programme in the industry: The new "Quality Controlled PV" of the independent certification institute TÜV Rheinland.

¹ See data sheet on rear for further information.

² APT test conditions according to IEC/TS 62804-1:2015, method A (-1500 V, 96 h)

The ideal solution for:



Rooftop arrays on residential buildings



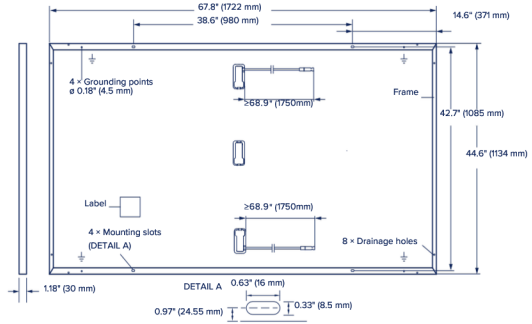
Quality Controlled PV
www.qcells.com
ID 111122815



Q.TRON BLK M-G2+ SERIES

Mechanical Specification

Format	67.8 in × 44.6 in × 1.18 in (including frame) (1722 mm × 1134 mm × 30 mm)
Weight	46.7 lbs (21.2 kg)
Front Cover	0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Black anodised aluminium
Cell	6 × 18 monocrystalline Q.ANTUM NEO solar half cells
Junction box	2.09-3.98 in × 1.26-2.36 in × 0.59-0.71 in (53-101 mm × 32-60 mm × 15-18 mm), Protection class IP67, with bypass diodes
Cable	4 mm ² Solar cable; (+) ≥ 68.9 in (1750 mm), (-) ≥ 68.9 in (1750 mm)
Connector	Stäubli MC4; IP68



Electrical Characteristics

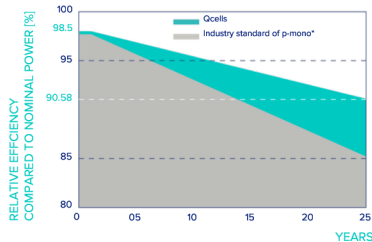
POWER CLASS		415	420	425	430	435	440		
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC1 (POWER TOLERANCE +5 W/-0 W)									
Minimum	Power at MPP ¹	P_{MPP}	[W]	415	420	425	430	435	440
	Short Circuit Current ¹	I_{SC}	[A]	13.49	13.58	13.66	13.74	13.82	13.90
	Open Circuit Voltage ¹	V_{OC}	[V]	38.47	38.75	39.03	39.32	39.60	39.88
	Current at MPP	I_{MPP}	[A]	12.83	12.91	12.98	13.05	13.13	13.20
	Voltage at MPP	V_{MPP}	[V]	32.34	32.54	32.74	32.94	33.14	33.33
	Efficiency ¹	η	[%]	≥21.3	≥21.5	≥21.8	≥22.0	≥22.3	≥22.5

MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT2

Minimum	Power at MPP	P_{MPP}	[W]	313.7	317.5	321.2	325.0	328.8	332.6
	Short Circuit Current	I_{SC}	[A]	10.87	10.94	11.00	11.07	11.14	11.20
	Open Circuit Voltage	V_{OC}	[V]	36.50	36.77	37.04	37.31	37.58	37.84
	Current at MPP	I_{MPP}	[A]	10.10	10.15	10.21	10.27	10.33	10.38
	Voltage at MPP	V_{MPP}	[V]	31.07	31.26	31.46	31.65	31.84	32.03

¹Measurement tolerances $P_{MPP} \pm 3\%$; I_{SC} ; $V_{OC} \pm 5\%$ at STC: 1000 W/m², 25 ± 2 °C, AM 1.5 according to IEC 60904-3 • ²800 W/m², NMOT, spectrum AM 1.5

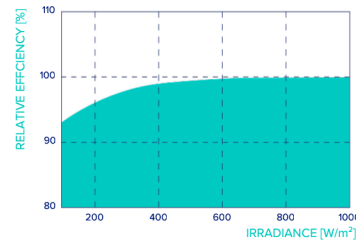
Qcells PERFORMANCE WARRANTY



At least 98.5% of nominal power during first year. Thereafter max. 0.33% degradation per year. At least 95.53% of nominal power up to 10 years. At least 90.58% of nominal power up to 25 years. All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Qcells sales organisation of your respective country.

*Standard terms of guarantee for the 5 PV companies with the highest production capacity in 2021 (February 2021)

PERFORMANCE AT LOW IRRADIANCE



Typical module performance under low irradiance conditions in comparison to STC conditions (25 °C, 1000 W/m²).

TEMPERATURE COEFFICIENTS

Temperature Coefficient of I_{SC}	α	[%/K]	+0.04	Temperature Coefficient of V_{OC}	β	[%/K]	-0.24
Temperature Coefficient of P_{MPP}	γ	[%/K]	-0.30	Nominal Module Operating Temperature	NMOT	[°F]	109 ± 5.4 (43 ± 3 °C)

Properties for System Design

Maximum System Voltage	V_{SYS}	[V]	1000 (IEC)/1000 (UL)	PV module classification	Class II
Maximum Series Fuse Rating		[A DC]	25	Fire Rating based on ANSI/UL 61730	C / TYPE 2
Max. Design Load, Push/Pull ³		[lbs/ft ²]	113 (5400 Pa)/50 (2400 Pa)	Permitted Module Temperature on Continuous Duty	-40 °F up to +185 °F (-40 °C up to +85 °C)
Max. Test Load, Push/Pull ³		[lbs/ft ²]	169 (8100 Pa)/75 (3600 Pa)		

³ See Installation Manual

Qualifications and Certificates

QualityControlledPV -
TÜV Rheinland;
IEC 61215:2016;
IEC 61730:2016.
This data sheet complies
with DIN EN 50380.



*UL and California Energy Commission (CEC) listings pending

www.tuv.com
ID 1111220277



Qcells pursues minimizing paper output in consideration of the global environment.

Note: Installation instructions must be followed. Contact our technical service for further information on approved installation of this product.
Hanwha Q CELLS America Inc. 400 Spectrum Center Drive, Suite 1400, Irvine, CA 92618, USA | TEL +1 949 748 59 96 | EMAIL hcq-inquiry@qcells.com | WEB www.qcells.com

qcells

Tesla Solar Panel

TSP-415 and TSP-420

The Tesla Solar Panel blends sleek aesthetics and hidden electrical connections with high-powered engineering, exceeding industry performance and quality standards. Featuring our Tesla frame design, the all-black panel mounts close to your roof for a minimalist aesthetic, with no extra rails and no visible clamps.

Proudly made on Earth by humans and assembled in Buffalo, New York, in the United States of America.

Sleek Design

- All-black solar panels and concealed cell connections for a uniform minimalist aesthetic.
- Seamless integration with Tesla Panel Mount - no exposed hardware, low profile, and aesthetic front and side skirts.

Power Zones

... More substrings to mitigate shade and deliver more energy to your home.

Designed to pair perfectly with the Tesla Solar Inverter and Powerwall 3.

3x Power Zones compared to legacy panels for maximized energy yield.

Standard Solar Panel

6 Power Zones



Tesla Solar Panel

18 Power Zones

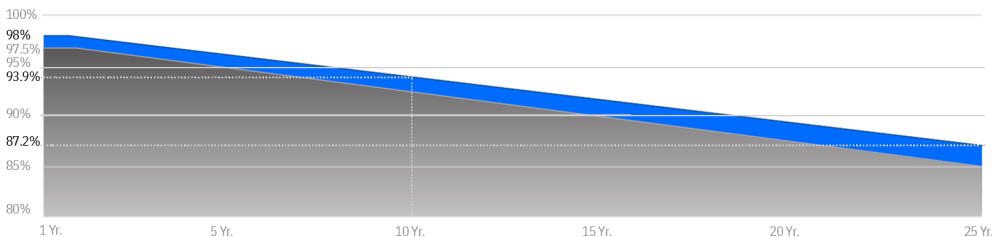


Limited Power Warranty

Product 25 years

Performance 25 years

At least 98% of nominal power during first year. Thereafter max. 0.45% degradation per year. At least 93.9% of nominal power up to 10 years. At least 87.2% of nominal power up to 25 years.



Tesla Solar Panel

Standard Solar Panel Tier 1 Warranty



Solar Panel Specifications

Electrical Characteristics

Model Number	TSP-415	TSP-420
Power Class	415 W	420 W
Test Method	STC	STC
Max Power, P_{max} (W)	415	420
PTC Rating (W)	390.6	395.4
Open Circuit Voltage, V_{oc} (V)	40.92	40.95
Short Circuit Current, I_{sc} (A)	12.93	13.03
Max Power Voltage, V_{mp} (V)	34.24	34.29
Max Power Current, I_{mp} (A)	12.12	12.25
Module Efficiency (%)	$\geq 20.3\%$	$\geq 20.5\%$
STC	1000 W/m ² , 25°C, AM1.5	

Operation Parameters

Operational Temperature	-40 °C up to +85°C
Power Output Tolerance	415W: +5/-0W 420W: +15/-0W
V_{oc} & I_{sc} Tolerance	+/- 5 %
Max System Voltage	DC 1000V (IEC/UL)
Max Series Fuse Rating	25 A
Safety Class	Class II
Fire Rating	UL 61730 Type 2

Mechanical Parameters

Cell Orientation	360 (6 x 60)
Junction Box	IP68, 3 diodes
Cable	4 mm ² 12 AWG, 1000 mm 39.4 in. Length
Connector	Staubli MC4
Front Cover	0.13 in (3.2 mm) thermally pre-stressed glass
Frame	Black Anodized Aluminum Alloy
Weight	22.3 kg 49 lb
Dimensions	1805 mm x 1135 mm x 40 mm 71.1 in x 44.7 in x 1.57 in

Mechanical Loading

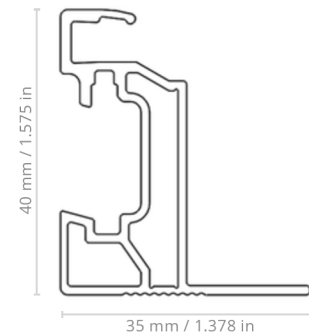
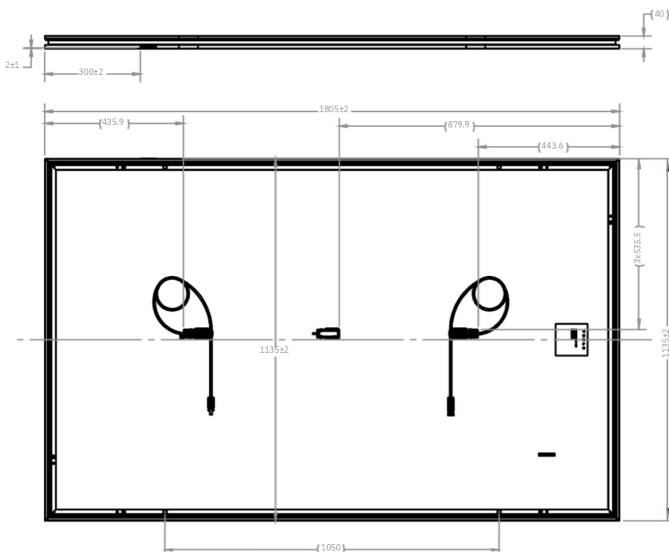
Front Side Test Load	4309 Pa 90 psf
Rear Side Test Load	4309 Pa 90 psf
Front Side Design Load	2873 Pa 60 psf
Rear Side Design Load	2873 Pa 60 psf
Hail Test	35mm at 27.2 m/s

Compliance Information

Certifications	IEC / UL 61730 - 1, IEC / UL 61730 - 2 and IEC 61215
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Temperature Rating (STC)

Temperature Coefficient of Isc	+0.04% / °C
Temperature Coefficient of V_{oc}	-0.27% / °C
Temperature Coefficient of P_{max} (W)	-0.34% / °C



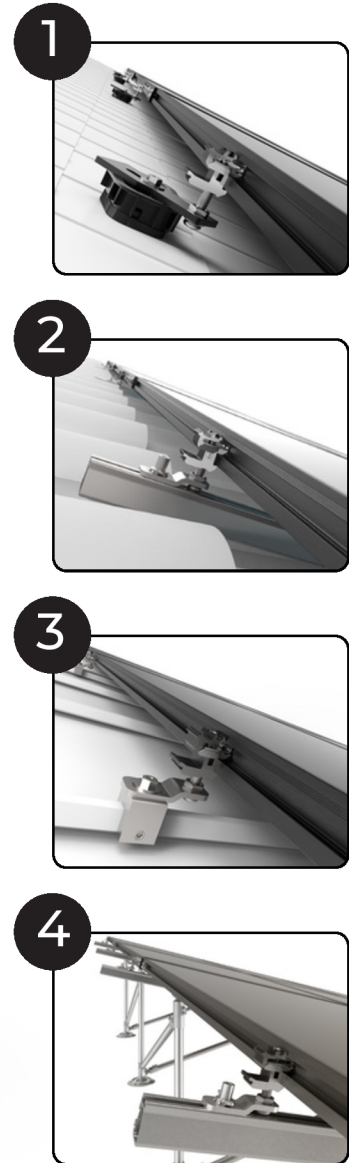
TESLA SOLAR PANEL

The Tesla Solar Panel blends sleek aesthetics and hidden electrical connections with high powered engineering, exceeding industry performance and quality standards.

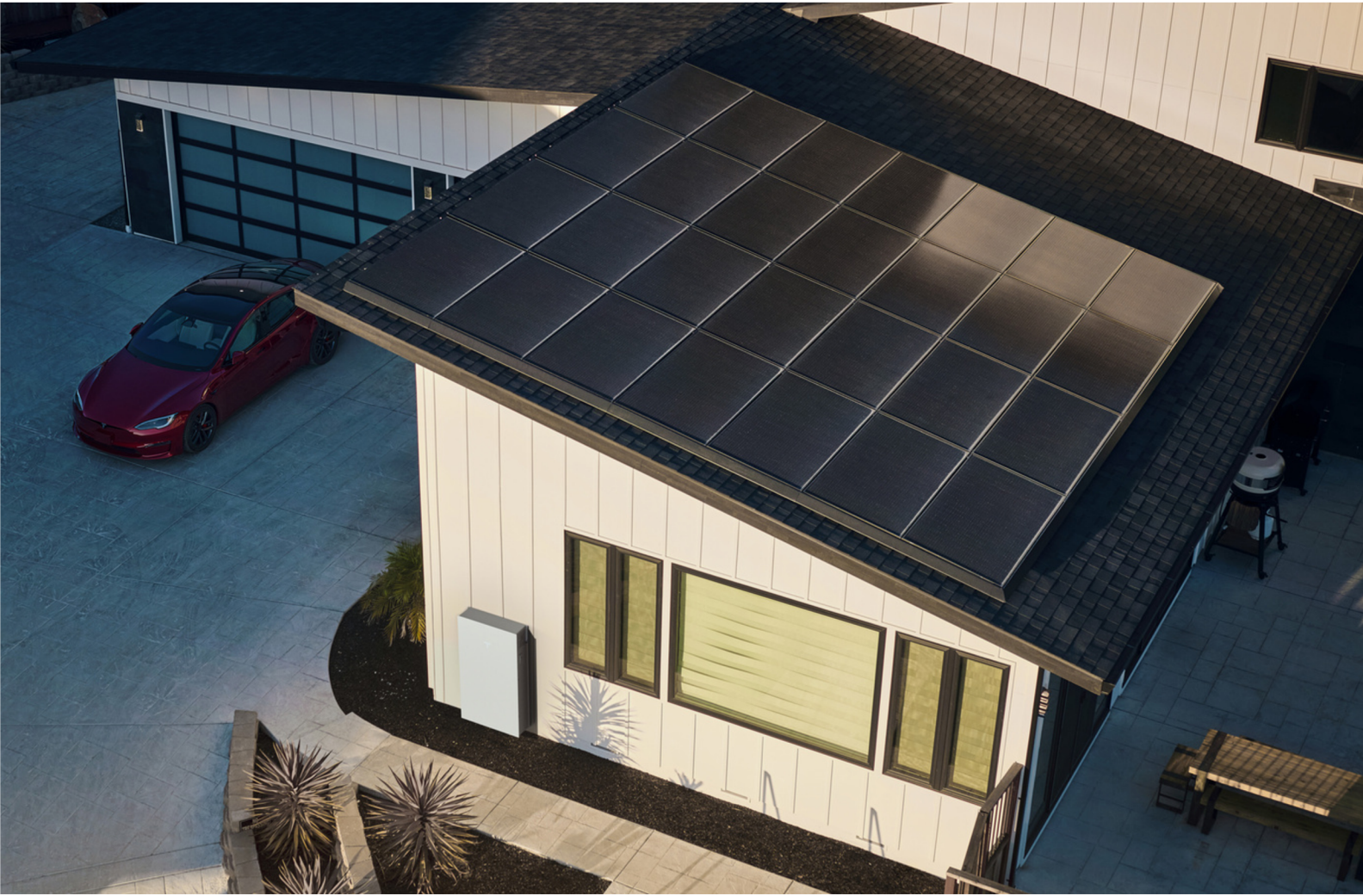
Featuring our proprietary Tesla frame design, the all-black module integrates seamlessly with the Tesla Panel Mount for a minimalist aesthetic with no exposed rails or clamps.

- 1. Tesla Panel Mount - Comp Rafter
- 2. Tesla Panel Mount - Tile
- 3. Tesla Panel Mount - Metal
- 4. Tesla Panel Mount - Flat

Model Number	TSP-415	TSP-420
Part Number	2550000-15-X	2550000-20-X
Power	415W	420W
Weight	22.3 kg / 49.0 lbs	
Size	1805mm x 1135mm x 40mm / 71.1" x 44.7" x 1.57"	

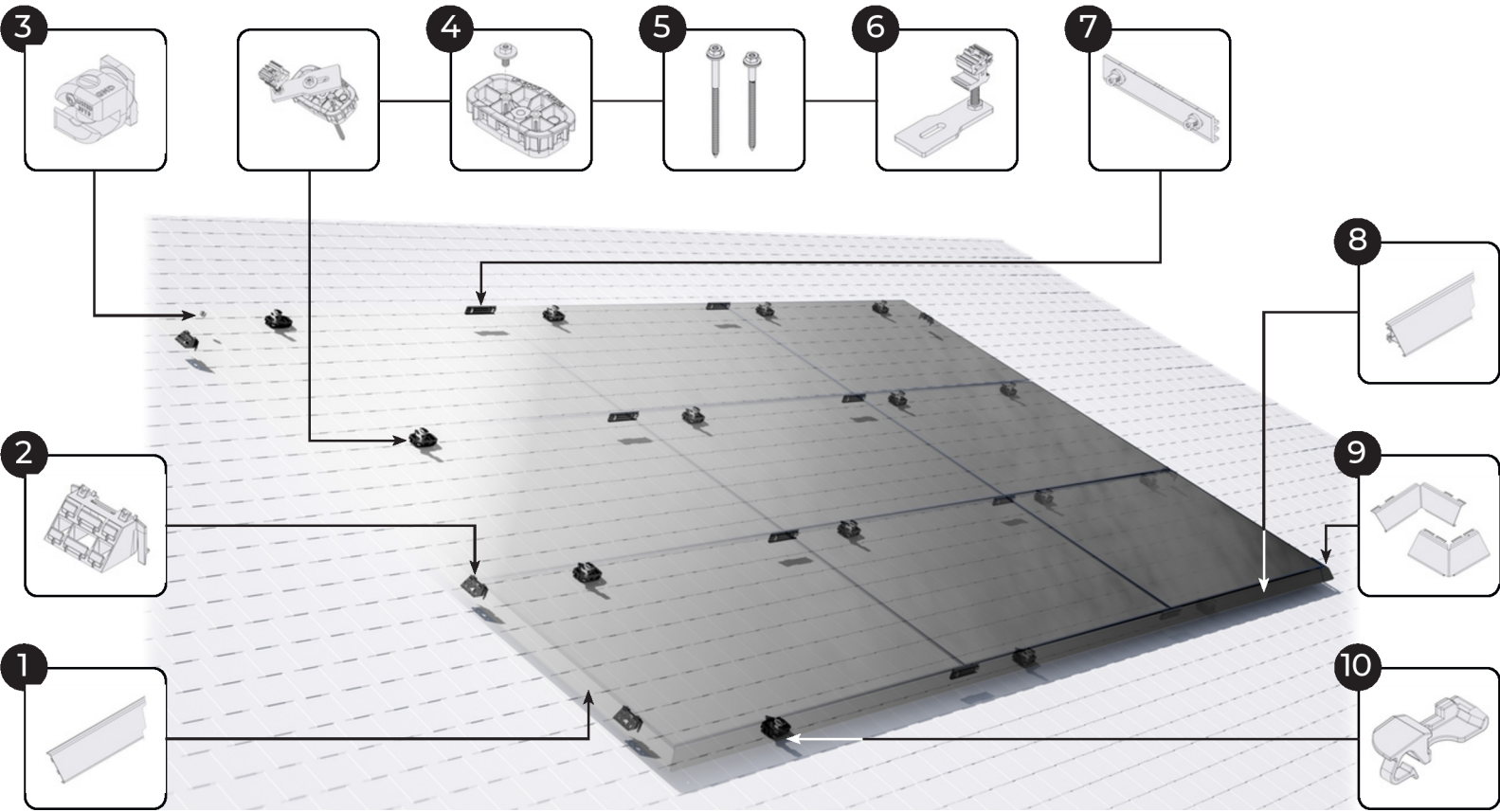


TESLA PANEL MOUNT COMP RAFTER



TESLA PANEL MOUNT COMP RAFTER SYSTEM OVERVIEW

- 1. Side Skirt
- 2. Side Skirt Bracket
- 3. Ground Lockit
- 4. Comp Rafter Base
- 5. Lag Screw (4.75 in or 5.5 in)
- 6. Comp Rafter Leveling Foot
- 7. Interlock
- 8. Front Skirt
- 9. Corner Cap
- 10. Front Skirt Grip



SolarEdge Home Hub Inverter

For North America

SE3800H-US / SE5700H-US / SE7600H-US / SE9600H-US /
SE10000H-US / SE11400H-US



**12 – 25
YEAR
WARRANTY**



HOME BACKUP

USA-manufactured residential inverter for storage and backup, with a single part number for all power classes

- Eligible for domestic content towards the enhanced federal income tax credit*
- One part number for all power classes, streamlining every step:
 - Unified product configuration simplifies ordering, logistics, and inventory
 - Optimized system design, selection, and installation
- The ultimate home energy manager in charge of PV production, battery storage, backup operation during a power outage**, EV Charging, and smart energy devices
- Record-breaking 99% weighted efficiency with up to 200% DC oversizing
- Able to start high LRA HVAC systems during backup operation
- Integrates seamlessly with the complete SolarEdge Home Smart Energy Ecosystem, through the SolarEdge Home Network
- Module-level monitoring and visibility of battery status, PV production, and self-consumption data
- Integrated Wi-Fi antenna for enhanced communication reliability and simplicity
- Fast and easy installation – small and lightweight, with reduced commissioning time
- NEMA 4X-rated, for indoor and outdoor installations
- A scalable solution that supports future homeowner needs through easy connection to a growing ecosystem
- Advanced safety features with integrated arc fault protection and rapid shutdown for 690.11 and 690.12
- Complies with UL 9540 (Ed.3) requirements for integration with compatible battery systems and control equipment
- Advanced reliability with automotive-grade components
- Embedded revenue grade production data, ANSI C12.20 Class 0.5
- Install larger systems while avoiding main panel upgrades with the embedded Power Control System (PCS)

* For more information on domestic content eligibility, see the SolarEdge Domestic Content application note.
** Requires additional hardware and firmware version upgrade.

/ SolarEdge Home Hub Inverter

For North America

SE3800H-US / SE5700H-US / SE7600H-US / SE9600H-US / SE10000H-US / SE11400H-US

Applicable to inverters with part number	USE11400H-USSKBEZ8												
Model Number(1)	SE3800H-US	SE5700H-US	SE7600H-US	SE9600H-US	SE10000H-US	SE11400H-US							
OUTPUT – AC ON GRID													
Maximum AC Power Output	3800 @ 240V	3300 @ 208V	5760 @ 240V	5000 @ 208V	7600 @ 240V	6600 @ 208V	9600 @ 240V	8300 @ 208V	10,000 @ 240V	8700 @ 208V	11,400 @ 240V	10,000 @ 208V	W
AC Output Voltage (Nominal)	@ 208V		@ 208V		208 / 240		208 / 240		@ 208V			Vac	
AC Output Voltage (Range)	183 – 264												Vac
AC Frequency Range (min - nom - max)	59.3 – 60 – 60.5(2)												Hz
Maximum Continuous Output Current	16												A
Maximum Fault Current / Duration	24												A
GFDI Threshold	32												Aac/μs
Total Harmonic Distortion (THD)	40												A
Power Factor	42												%
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	47.8												
Charge Battery from AC (if allowed)	74 / 50												
Typical Nighttime Power Consumption	1												W
	< 3												
	1, adjustable -0.85 to 0.85												
	Yes												
	Yes												
	< 2.5												W
OUTPUT – AC STANDALONE (BACKUP) (3)													
Rated AC Power in Standalone Operation(4)	12,500(5)(6)												W
Maximum Continuous Output Current in Standalone Operation	52												A
Locked Rotor Amperage (LRA)(7)	Up to 106												A
AC L-L Output Voltage Range in Standalone Operation	211 – 264												Vac
AC L-N Output Voltage Range in Standalone Operation	105 – 132												Vac
AC Frequency Range in Standalone Operation (min - nom - max)	55 – 60 – 65												Hz
GFDI	1												A
THD	< 5												%
INPUT – DC (PV AND BATTERY)													
Transformer-less, Ungrounded	Yes												
Maximum Input Voltage	480												Vdc
Nominal DC Input Voltage	395V @ 240Vac												Vdc
	380V @ 208Vac												
Reverse-Polarity Protection	Yes												
Ground-Fault Isolation Detection	600kΩ Sensitivity												
Maximum Input Short Circuit Current	45												Adc
Maximum Inverter Efficiency	99.2												%
CEC Weighted Efficiency	99	99 @ 240V	99 @ 240V	98.6 @ 208V	98.7 @ 240V	98.6 @ 208V	99 @ 240V	98.6 @ 208V	99	99		%	
2-Pole Disconnection	Yes												
DC CONNECTION – PV													
Maximum Input Power	7600 @ 240V	11,520 @ 240V	15,200 @ 240V	19,200 @ 240V	20,000 @ 240V	22,800 @ 240V							W
	6600 @ 208V	10,000 @ 208V	13,200 @ 208V	16,600 @ 208V	17,400 @ 208V	20,000 @ 208V							
Maximum Input Current	20 @ 240V	30 @ 240V	40 @ 240V	51 @ 240V	53 @ 240V	60 @ 240V							Adc
	17.5 @ 208V	26.5 @ 208V	35 @ 208V	44 @ 208V	46 @ 208V	53 @ 208V							
Number of Ports	3												
Maximum Current per Port	40												Adc

(1) These specifications apply to inverters with part number USE11400H-USSKBEZ8 and connection unit model number DCD-1PH-US-PxH-F-x.

(2) For other regional settings please refer to the SolarEdge Inverters, Power Control Options application note.

(3) Not designed for non-grid connected applications and requires AC for commissioning. Standalone (backup) functionality is only supported for the 240V grid.

(4) For models SE7600H-US and below, the Rated AC Power in Standalone Operation is configurable between 7,600W with a Maximum Continuous Output Current of 32A or 12,500W with a Maximum Continuous Output Current of 52A, from firmware version 4.23.xx.

(5) Operational only at ambient temperatures up to 86°F / 30°C. Above 86°F / 30°C, the Maximum Rated AC Power in Standalone Operation is 11,400W.

(6) Available only for single inverter installations. In multi-inverter installations, the Maximum Rated AC Power in Standalone Operation is 11,400W.

(7) For more information about LRA (Locked Rotor Amperage) values, see the SolarEdge Home Hub Inverter LRA application note.

SolarEdge Home Hub Inverter

For North America

SE3800H-US / SE5700H-US / SE7600H-US / SE9600H-US / SE10000H-US / SE11400H-US

Applicable to inverters with part number	USE11400H-USSKBEZ8						
Model Number(1)	SE3800H-US	SE5700H-US	SE7600H-US	SE9600H-US	SE10000H-US	SE11400H-US	
DC CONNECTION - BATTERY							
Supported Battery Types	SolarEdge Home Battery 400V						
Number of Batteries per Inverter	Up to 3						
Maximum Continuous Power (Charge and Discharge)(8)	12,500						W
Number of Ports	2						
Maximum Current per Port	40						Adc
2-pole Disconnection	Up to the inverter's rated standalone power						
SMART ENERGY CAPABILITIES							
Consumption Metering	Built-in(9)						
Standalone & Battery Storage	With Backup Interface (purchased separately) for service up to 200A; up to 3 inverters						
EV Charging	Direct connection to the SolarEdge Home EV Charger(10)						
ADDITIONAL FEATURES							
Supported Communication Interfaces	RS485, Ethernet, Cellular(11) (optional), Wi-Fi(12), SolarEdge Home Network(13) (optional)						
Revenue Grade Metering, ANSI C12.20	Built-in(9)						
Integrated AC, DC, and Communication Connection Unit	Yes						
Inverter Commissioning	With the SolarEdge Go mobile application using built-in Wi-Fi Access Point for local connection						
DC Voltage Rapid Shutdown (PV and Battery)	Yes, NEC 690.12						
STANDARD COMPLIANCE							
Safety	UL 1741, UL 1741SA, UL 1741SB, UL 1699B, CSA 22.2#107.1, C22.2#330, C22.3#9, ANSI/CAN/UL 9540						
Grid Connection Standards	IEEE1547-2018 and IEEE-1547.1 Rule 21, Rule 14H						
Emissions	FCC Part 15 Class B						
Power Control System (PCS)	UL 1741 PCS(14)						
INSTALLATION							
SPECIFICATIONS							
AC Terminals DC Terminals	L1, L2, N terminal blocks, PE busbar for inverter connection L1, L2 terminal blocks, PE busbar for EV Charger AC connection						
AC Output and EV AC Output Conduit Size	3 x terminal block pairs for PV input, 2 x terminal block pair for battery input						
AWG Range	1" maximum / 14 – 4 AWG						
DC Input (PV and Battery) Conduit Size / AWG Range	1" maximum / 14 – 6 AWG						
Dimensions with Connection Unit (H x W x D)	21.06 x 14.6 x 8.2 / 535 x 370 x 208						in/ mm
Weight with Connection Unit	44.9 / 20.3						lb / kg
Noise	< 50						dBA
Cooling	Natural Convection						
Operating Temperature Range	-40 to +140 / -40 to +60(15)						°F/°C
Protection Rating	NEMA 4X						

- (8) Discharge power is limited up to the inverter's rated AC power for on-grid applications, and up to 12.5 kW for standalone applications, as well as up to the installed batteries' rating.
 (9) For consumption metering current transformers should be ordered separately: SECT-SPL-225A-T-20 or SEACT1250-400NA-20. Revenue grade metering is only for production metering.
 (10) For more information about the SolarEdge Home EV Charger, refer to the SolarEdge Home EV Charger datasheet.
 (11) Purchased separately. Information concerning the data plan terms & conditions is available in SolarEdge Communication Plan Terms and Conditions.
 (12) External Wi-Fi antenna for wider range provided with the inverter's package. Refer to the Antenna for Wi-Fi and ZigBee Wireless Communications datasheet.
 (13) SolarEdge Home Network Plugin ENET-HBNP-01 purchased separately. For more information, refer to the SolarEdge Home Network Plugin datasheet.
 (14) Only part numbers USExxxxH-USMNX7x/USE11400H-USSKBEZ8 support the PCS meter.
 (15) Full power up to at least 122°F / 50°C. For power derating information refer to the Temperature Derating for North America technical note.

SolarEdge is a global leader in smart energy technology. By leveraging world-class engineering capabilities and with a relentless focus on innovation, SolarEdge creates smart energy solutions that power our lives and drive future progress.

SolarEdge developed an intelligent inverter solution that changed the way power is harvested and managed in photovoltaic (PV) systems. The SolarEdge DC optimized inverter maximizes power generation while lowering the cost of energy produced by the PV system.

Continuing to advance smart energy, SolarEdge addresses a broad range of energy market segments through its PV, storage, EV charging, UPS, and grid services solutions.

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Cautionary Note Regarding Market Data and Industry Forecasts: This brochure may contain market data and industry forecasts from certain third-party sources. This information is based on industry surveys and the preparer's expertise in the industry and there can be no assurance that any such market data is accurate or that any such industry forecasts will be achieved. Although we have not independently verified the accuracy of such market data and industry forecasts, we believe that the market data is reliable and that the industry forecasts are reasonable.



Commercial Power Optimizer

USADomesticContentEligible

C651U

POWER OPTIMIZER



SolarEdge's USA-manufactured offering for C&I projects, for power optimization at the module level

- **Eligible for Domestic Content***
 - SolarEdge USA-manufactured power optimizers, when paired with certain SolarEdge USA-manufactured inverters, are intended to be eligible for the enhanced federal income tax credit for domestic content
- **Higher Energy Yields**
 - Generates maximum power from each PV module
 - High efficiency (99.5%)
 - Supports high power and bifacial PV modules, including G12 modules
- **Enhanced Monitoring and Visibility**
 - Maximum system visibility up to the individual module level
 - Pinpointed fault detection and remote troubleshooting
- **Maximum Protection with Built-in Safety**
 - Designed to automatically reduce high DC voltage to touch-safe levels, upon grid/inverter shutdown, with SafeDC™
 - Includes SolarEdge Sense Connect, designed to prevent arcs by monitoring Power Optimizer connectors for overheating
 - Certified to Photovoltaic Rapid Shutdown, according to NEC 2014 – 2023

* For more information, refer to the last page of this document

/ Power Optimizer

USA Domestic Content Eligible for North America

C651U

Power Optimizer Model	C651U	
INPUT		
Rated Input DC Power Absolute Maximum Input Voltage (Voc) MPPT	650	W
Operating Range Maximum Short Circuit Current (Isc) of	80	Vdc
Connected PV Module(2) Maximum Adjusted Short Circuit Current (with Safety Factor)(3) Maximum Efficiency Weighted Efficiency	12.5 – 80	Vdc
	20	Adc
	25	Adc
	99.5	%
	98.8	%
Overvoltage Category	II	
OUTPUT DURING OPERATION		
Maximum Output Power	650	Wdc
Maximum Output Current	24	Adc
Maximum Output Voltage	60	Vdc
SAFETY FEATURES		
SafeDC™	Yes	
Safety Output Voltage per Power Optimizer	0.5 ± 0.075	Vdc
Sense Connect	Yes	
Photovoltaic Rapid Shutdown System	Yes, NEC 2014 – 2023	
STANDARD COMPLIANCE		
EMC	FCC Part 15; IEC 61000-6-2; IEC 61000-6-3	
Safety	IEC62109-1 (class II safety); UL 1741; UL 3741; CSA C22.2#107.1	
Material	UL94 V-0, UV Resistant	
RoHS	Yes	
Fire Safety	VDE-AR-E 2100-712:2013-05	
INSTALLATION SPECIFICATIONS		
Compatible SolarEdge Inverters ⁽⁴⁾	Commercial Three Phase Inverters with one of the following part number structures: xSE-SIN-USxxIxxxx SE-DBL-USxxIxxxx SE-TRI-USxxIxxxx	
Maximum Allowed System Voltage	1000	Vdc
Dimensions (W x L x H) Weight Input	128 x 155 x 52 / 5.03 x 6.10 x 2.05	mm / in
Connector Input Wire Length Output	1080 / 2.38	gr / lb
Connector Output Wire Length	MC4(5)	
Operating Temperature Range(7)	(+) 1.4, (-) 1.4 / (+) 4.59, (-) 4.59(6)	m/ft
Protection Rating Relative Humidity	MC4	
	(+) 3.0 (-) 0.10 / (+) 9.84, (-) 0.32	m/ft
	-40 to +85 / -40 to +185	°C / °F
	IP68 / NEMA6P	
	0 – 100	%

- (1) Modules with a front side maximum power of up to 715W at STC are allowed. Up to +5% power tolerance is allowed.
 (2) When using bifacial modules, consider only the front side Isc at STC (0% back side gain). For details, see here.
 (3) Adjusted for ambient temperature, irradiance, bifacial gain, safety factor, and so on, in accordance with NEC and CSA.
 (4) For detailed inverter compatibility information, see here.
 (5) For other connector types please contact SolarEdge.
 (6) The Sense Connect feature is only enabled on the output wire connectors. For details, see here.
 (7) For ambient temperatures above +65°C / +149°F, power derating is applied. For details, see here.

/ Power Optimizer

USADomesticContent Eligible for North America

C651U

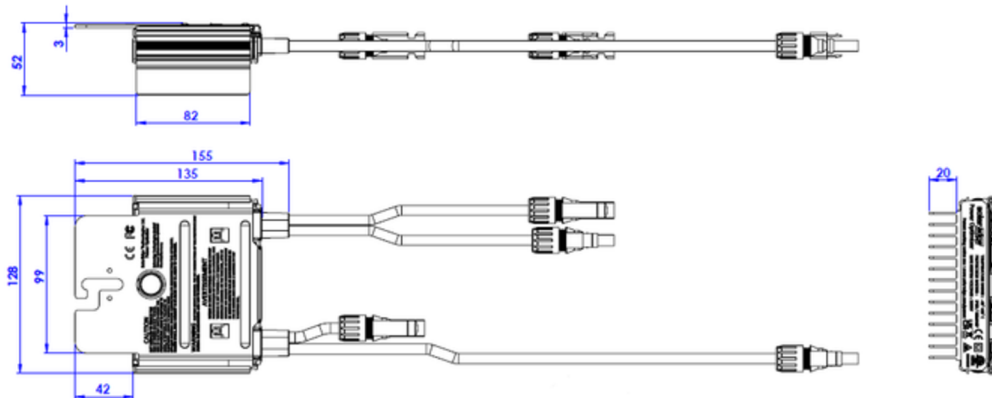
PV System Design Using a SolarEdge Inverter(8)		208V Grid	208V Grid	277/480V Grid	277/480V Grid		
		SE10K	SE17.3K*	SE30K, SE33.3K*	SE40K*		
Compatible Power Optimizers		C651U					
Minimum String Length	Power Optimizers	13	13	18	18		
	PV Modules	13	13	18	18		
Maximum String Length	Power Optimizers	57	57	57	57		
	PV Modules	57	57	57	57		
Maximum Continuous Power per String		10,000	9600	20,400	20,400	W	
Maximum Allowed Connected Power per String(9)		1 string or more – 15,000	1 string – 11,400	1 string – 22,650	1 string – 22,650	W	
			2 strings or more – 15,600	2 strings or more – 30,400	2 strings or more – 30,400		
Parallel Strings of Different Lengths or Orientations		Yes					
Maximum Difference in Number of Power Optimizers Allowed Between the Shortest and Longest String Connected to the Same Inverter Unit		5 Power Optimizers					

*The same rules apply for Synergy units of equivalent power ratings, that are part of the modular Synergy Technology inverter.

(8) C651U cannot be mixed with any other Power Optimizer models in the same string.

(9) To connect more STC power per string, design your project using SolarEdge Designer.

C651U Mechanical Drawing



Eligibility for Domestic Content

As it relates to the domestic content rules, the U.S. Department of Treasury and the IRS have not yet issued proposed or final regulations. Rather, the IRS has issued three notices - Notice 2023-38, Notice 2024-41 and Notice 2025-08. These notices provide guidance regarding the domestic content rules. SolarEdge products referenced herein are manufactured with the intent to be eligible for inclusion under the elective safe harbor table in calculating the Domestic Cost Percentage under the "Rooftop (MLPE)" category (under IRS Notices 2024-41 and 2025-08, depending on the PN used – see chart below). Eligibility is subject to the installation of qualified USA-Manufactured inverters and Power Optimizers (C651U) in the same project. SolarEdge does not provide tax and/or legal advice. You should consult with your own legal and/or tax advisor(s) regarding the eligibility of your project for the ITC or PTC, including the 10% Domestic Content bonus, to determine how the applicable rules apply to your project. The forward-looking statements in this document are accurate as of the date herein and are subject to change. For more information, please contact your local SolarEdge sales representative.

PN	Domestically produced MPCs per notice 2024-41*	Domestically produced MPCs per notice 2025-08*
USE-SIN-USR0IBNS6, when paired with C651U	Printed Circuit Board Assemblies, Electrical Parts, Enclosure (35.6%)	Printed Circuit Board Assemblies (DC-DC) and (AC-AC), Enclosure, Production (24.8%)
USESUK-USR0INNN6, when paired with C651U	Printed Circuit Board Assemblies, Electrical Parts, Enclosure (35.6%)	Printed Circuit Board Assemblies (DC-DC) and (AC-AC), Enclosure, Production (24.8%)
USE-SIN-USR0IBNS8, when paired with C651U	Printed Circuit Board Assemblies, Electrical Parts, Enclosure (17.6%)	Printed Circuit Board Assemblies (DC-DC) and (AC-AC), Enclosure, Production (24.8%)
USESUK-USR0INNN8, when paired with C651U	Printed Circuit Board Assemblies, Electrical Parts, Enclosure (17.6%)	Printed Circuit Board Assemblies (DC-DC) and (AC-AC), Enclosure, Production (24.8%)



Breathe easy with accelerated installations.

The Aire® racking system has been carefully engineered to streamline every part of the installation process. We've eliminated tiresome hassles, so that you get off the roof and on to your next project faster than ever.

Aire® retains the strength and reliability that IronRidge installers depend on. It also takes wire management to the next level with the first (and only) NEC-compliant rail, formally approved and listed as a cable tray.



Strength Tested

All components have been evaluated for superior structural performance.



PE Certified

Pre-stamped engineering letters are available online for most states.



Class A Fire Rating

Certified to maintain the fire resistance rating of the existing roof structure.



Approved Cable Tray

Open channel listed to NEMA VE 1, certified to hold PV and DG cables.



UL 2703 Listed System

Entire system and components meet the latest effective UL 2703 standards.

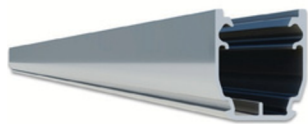


25-Year Warranty

Products are guaranteed to arrive without any impairing defects.

Rails

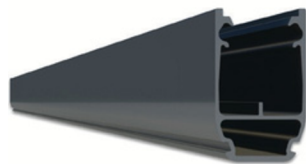
Aire® A1 Rail



The lighter, open Aire® rail for standard conditions.

- 6' spanning capability
- Wire management tray
- Mill or anodized black

Aire® A2 Rail



The tougher, open Aire® rail for higher load capacity.

- 8' spanning capability
- Wire management tray
- Mill or anodized black

Aire® Rail Ties



Structurally connect and bond Aire® Rails together.

- Reinstallable, up to 5x
- Internal splice design
- No more splice rules

Aire® Dock



Connects Aire® Rails to attachments with ease.

- Clicks on, slides easily
- Drops into open slots
- Anodized assembly

Clamps & Grounding

Aire® Lock Mids



Securely bond between modules to Aire® Rails.

- Fits 30-40mm modules
- Utilizes UFO® design
- Minimal 1/2" gap

Aire® Lock Ends



Securely bond modules to Aire® Rails along ends.

- Fits 30-40mm modules
- Easy rail engagement
- Clean aesthetics

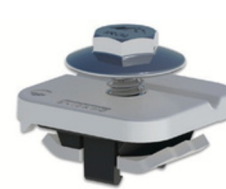
Aire® Lock Stealth®



Securely bonds modules to rail ends, entirely hidden.

- Angled for easy install
- Robust tether leash
- Fits most modules

Aire® Lug



Bonds Aire® Rails to grounding conductors.

- Simplified with single bolt
- Low-profile form factor
- Works with 10-6 AWG

Accessories

Aire® Caps



Block entry and provide a finished look to Aire® Rails.

- Stay secure on rail ends
- Symmetrical, with drain
- Cover rough-cut ends

Aire® Clip



Keeps wiring contained in open Aire® Rail channels.

- No module interference
- Simple press-in design
- Slot for easy removal

Aire® MLPE Mount



Securely bonds MLPE and accessories to Aire® Rails.

- Glove-friendly installation
- Lays flush in rail channel
- Low profile form factor

Aire® All Tile Hook



Attaches rails to tile roofs, with Aire® Dock included.

- Works on flat, S, & W tiles
- Single-socket installation
- Optional deck flashing

Resources



Design Assistant

Quickly go from rough layout to fully engineered system.

Go to [IronRidge.com/design](https://www.ironridge.com/design)



Approved for FL Hurricane Zones

Aire® has Florida Product Approval. Additional details can be found on the Florida Building Code website.

Learn More at bit.ly/florida-aire



SKY-RACK 2.0 Ground Mount

*"A Cost-Effective Fixed Tilt or
Season Adjustable System"*

- Average Lead Time is 7 Business Days For Projects Under 3MW
- Only 4 Main Components Required (All Inclusive)
- Designed for Fast Installation
- UL 2703 Listed



Galvanized Steel
Components & Hardware

15-60 Degrees of Adjustability

Easy to Install Vinyl
Wire Management Extrusion

In 2020, **Sinclair Designs & Engineering** introduced the SKY-RACK 2.0 Ground Mount System (Fixed Tilt & Season Adjustable). This product was designed for heavy snow areas. During the winter months, 60 Degrees is an optimal angle for production and snow shedding. This cantilevered design distributes the loads better and offers superior aesthetics.

Since the pandemic began, we manufactured and delivered over 150 Megawatts to support residential and commercial installations across the country. Our average lead time is 10 business days for projects under 3 Megawatts. We also provide Solar Carports, ballasted roof mounts, and Dual Axis Tracking Pole Mount Systems.

"The COVID pandemic presented us with a unique opportunity." A large majority of US Solar racking suppliers outsource manufacturing, so they were challenged with extended lead times and material shortages. EPC's were looking for alternate solutions to get product faster.

"That's when our phones started ringing. Customers needed our short lead times; and are now repeat buyers because of our quality and customer service. We manufacture product in house and answer the phones when you call."



www.sinclair-designs.com



877-517-0311

Powerwall 3

Power Everything

Powerwall 3 is a fully integrated solar and battery system, designed to accelerate the transition to sustainable energy. Customers can receive whole home backup, cost savings, and energy independence by producing and consuming their own energy while participating in grid services. Once installed, customers can manage their system using the Tesla App to customize system behavior to meet their energy goals.

Powerwall 3 achieves this by supporting up to 20 kW DC of solar and providing 11.5 kW AC of continuous power per unit. It has the ability to start heavy loads up to 185 A LRA, meaning a single unit can support the power needs of most homes. Powerwall 3 is designed for mass production, fast and efficient installations, easy system expansion, and simple connection to any electrical service.



Powerwall 3 Technical Specifications

System Technical Specifications

Model Number	1707000-xx-y
Nominal Grid Voltage (Input & Output)	120/240 VAC
Grid Type	Split phase
Frequency	60 Hz
Overcurrent Protection Device	Configurable up to 60 A
Solar to Battery to Home/Grid Efficiency	89% ^{1,2}
Solar to Home/Grid Efficiency	97.5% ³
Supported Islanding Devices	Backup Gateway 2, Backup Switch
Connectivity	Wi-Fi (2.4 and 5 GHz), Dual-port switched Ethernet, Cellular (LTE/4G ⁴)
Hardware Interface	Dry contact relay, Rapid Shutdown (RSD) certified switch and 2-pin connector, RS-485 for meters
AC Metering	Revenue Grade (+/- 0.5%)
Protections	Integrated arc fault circuit interrupter (AFCI), Isolation Monitor Interrupter (IMI), PV Rapid Shutdown (RSD) using Tesla Mid-Circuit Interrupters
Customer Interface	Tesla Mobile App
Warranty	10 years

Solar Technical Specifications

Maximum Solar STC Input	20 kW
Withstand Voltage	600 V DC
PV DC Input Voltage Range	60 – 550 V DC
PV DC MPPT Voltage Range	150 – 480 V DC
MPPTs	6
Maximum Current per MPPT (I_{mp})	13 A ⁵
Maximum Short Circuit Current per MPPT (I_{sc})	15 A ⁵

Battery Technical Specifications

Nominal Battery Energy	13.5 kWh AC ²
Maximum Continuous Discharge Power	11.5 kW AC
Maximum Continuous Charge Power	5 kW AC
Output Power Factor Rating	0 - 1 (Grid Code configurable)
Maximum Continuous Current	48 A
Maximum Output Fault Current	10 kA
Load Start Capability (1 s)	185 A LRA
Power Scalability	Up to 4 Powerwall 3 units supported

¹ Typical solar shifting use case.

² Values provided for 25°C (77°F), at beginning of life. 3.3 kW charge/discharge power.

³ Tested using CEC weighted efficiency methodology.

⁴ Cellular connectivity subject to network service coverage and signal strength.

⁵ Where the DC input current exceeds the MPPT rating, a jumper can be used to combine two MPPTs into a single input to intake DC current up to 26 A I_{mp} / 30 A I_{sc} .

Powerwall 3 Technical Specifications

Environmental Specifications

Operating Temperature	-20°C to 50°C (-4°F to 122°F) ⁶
Operating Humidity (RH)	Up to 100%, condensing
Storage Temperature	-20°C to 30°C (-4°F to 86°F), up to 95% RH, non-condensing, State of Energy (SOE): 25% initial
Maximum Elevation	3000 m (9843 ft)
Environment	Indoor and outdoor rated
Enclosure Rating	NEMA 3R
Ingress Rating	IPX7 (Battery & Power Electronics) IPX5 (Wiring Compartment)
Pollution Rating	PD3
Operating Noise @ 1 m	< 50 db(A) typical < 62 db(A) maximum

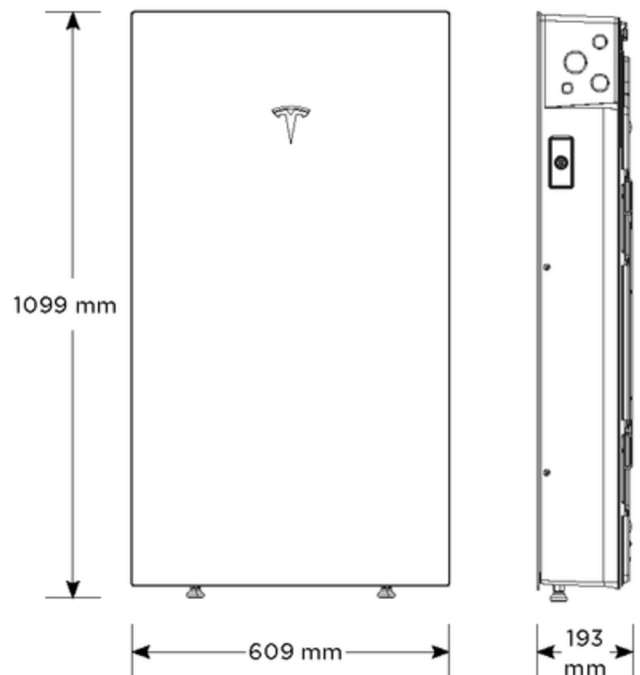
⁶ Performance may be de-rated at operating temperatures above 40°C (104°F).

Compliance Information

Certifications	UL 1642, UL 1699B, UL 1741, UL 1741 SA, UL 1741 SB, UL 3741, UL 1973, UL 1998, UL 9540, IEEE 1547-2018, IEEE 1547.1, UN 38.3
Grid Connection	United States
Emissions	FCC Part 15 Class B
Environmental	RoHS Directive 2011/65/EU
Seismic	AC156, IEEE 693-2005 (high)
Fire Testing	Meets the unit level performance criteria of UL 9540A

Mechanical Specifications

Dimensions	1099 x 609 x 193 mm (43.25 x 24 x 7.6 in)
Weight	130 kg (287 lb)
Mounting Options	Floor or wall mount



POWERWALL

Tesla Powerwall is a fully-integrated AC battery system for residential or light commercial use. Its rechargeable lithium-ion battery pack provides energy storage for solar self-consumption, time-based control, and backup.

Powerwall's electrical interface provides a simple connection to any home or building. Its revolutionary compact design achieves market-leading energy density and is easy to install, enabling owners to quickly realize the benefits of reliable, clean power.



PERFORMANCE SPECIFICATIONS

AC Voltage (Nominal)	120/240 V
Feed-In Type	Split Phase
Grid Frequency	60 Hz
Total Energy	14 kWh ¹
Usable Energy	13.5 kWh ¹
Real Power, max continuous	5 kW (charge and discharge)
Real Power, peak (10s, off-grid/backup)	7 kW (charge and discharge)
Apparent Power, max continuous	5.8 kVA (charge and discharge)
Apparent Power, peak (10s, off-grid/backup)	7.2 kVA (charge and discharge)
Maximum Continuous Current	24 A
Maximum Output Fault Current	32 A
Overcurrent Protection Device	30 A
Load Start Capability	88 - 106 A LRA ²
Imbalance for Split-Phase Loads	100%
Power Factor Output Range	+/- 1.0 adjustable
Power Factor Range (full-rated power)	+/- 0.85
Internal Battery DC Voltage	50 V
Maximum Supply Fault Current	10 kA
Round Trip Efficiency	90% ^{1,3}
Warranty	10 years

¹Values provided for 25°C (77°F), 3.3 kW charge/discharge power.

²Load start capability may vary.

³AC to battery to AC, at beginning of life.

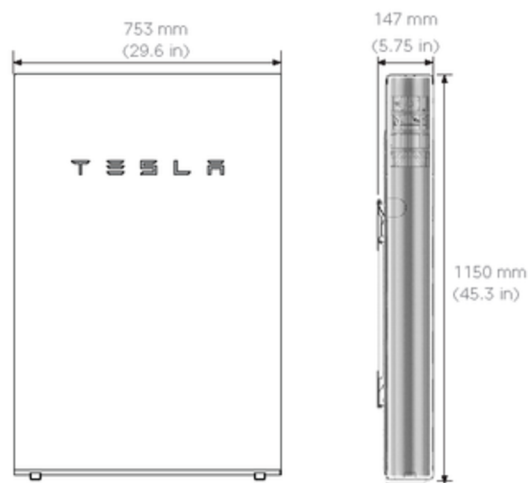
COMPLIANCE INFORMATION

Certifications	UL 1642, UL 1741, UL 1741 SA, UL 1741 SB, UL 1973, UL 9540, IEEE 1547-2018, UN 38.3
Grid Connection	Worldwide Compatibility
Emissions	FCC Part 15 Class B, ICES 003
Environmental	RoHS Directive 2011/65/EU
Seismic	AC156, IEEE 693-2005 (high)
Fire Testing	Meets the unit level performance criteria of UL 9540A

MECHANICAL SPECIFICATIONS

Dimensions	1150 x 753 x 147 mm (45.3 x 29.6 x 5.75 in) ⁴
Weight	114 kg (251.3 lbs) ⁴
Mounting options	Floor or wall mount

⁴Dimensions and weight differ slightly if manufactured before March 2019. Contact Tesla for additional information.



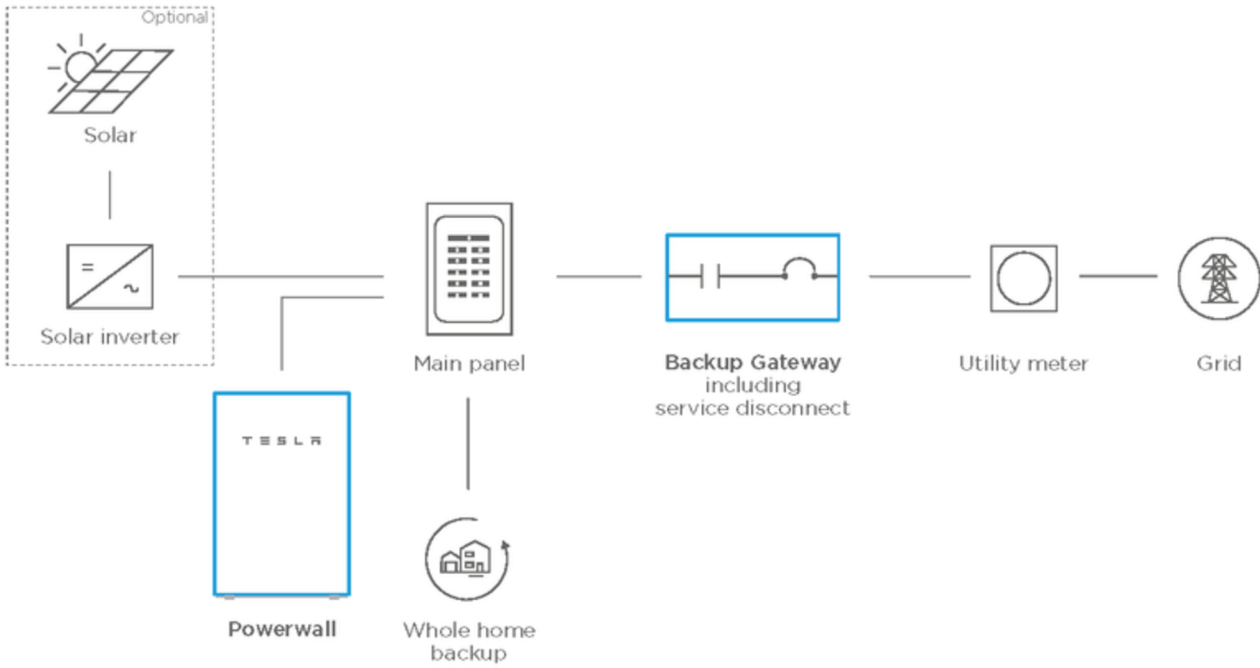
ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-20°C to 50°C (-4°F to 122°F) ⁵
Operating Humidity (RH)	Up to 100%, condensing
Storage Conditions	-20°C to 30°C (-4°F to 86°F) Up to 95% RH, non-condensing State of Energy (SoE): 25% initial
Maximum Elevation	3000 m (9843 ft)
Environment	Indoor and outdoor rated
Enclosure Type	NEMA 3R
Ingress Rating	IP67 (Battery & Power Electronics) IP56 (Wiring Compartment)
Wet Location Rating	Yes
Noise Level @ 1m	< 40 dBA at 30°C (86°F)

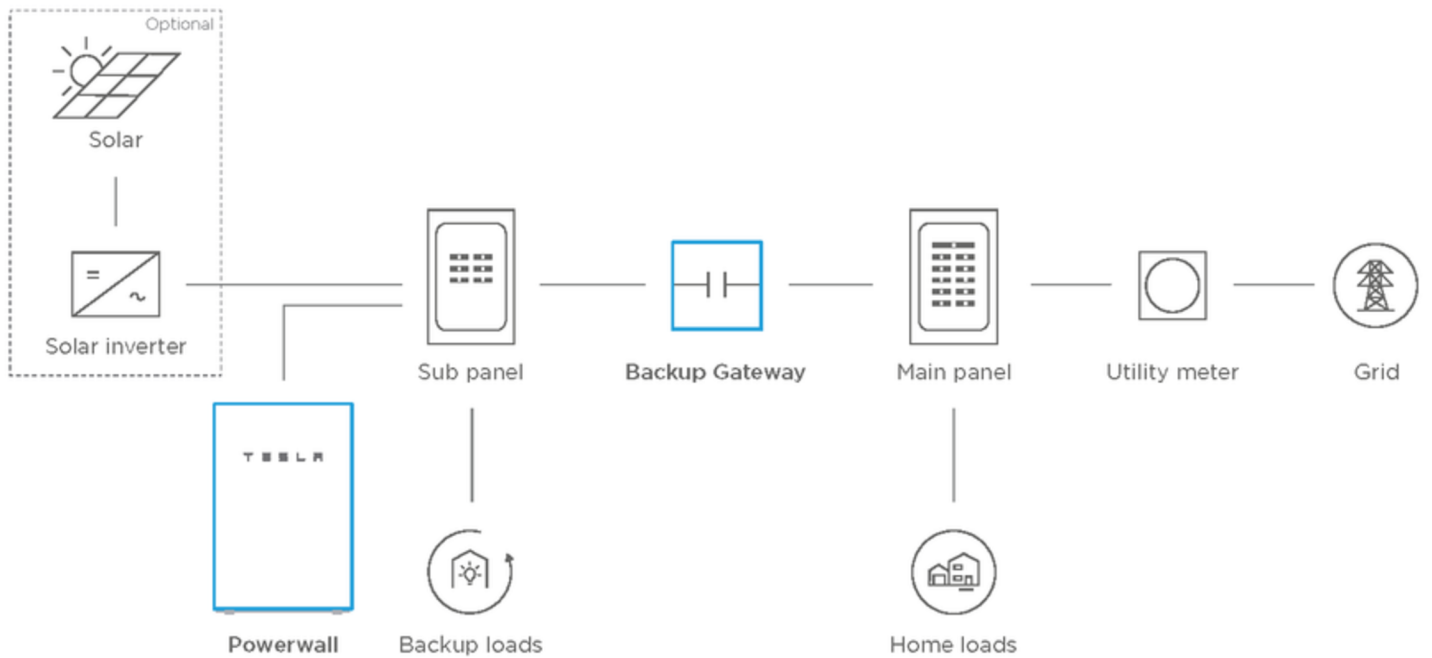
⁵Performance may be de-rated at operating temperatures below 10°C (50°F) or greater than 43°C (109°F).

TYPICAL SYSTEM LAYOUTS

WHOLE HOME BACKUP



PARTIAL HOME BACKUP



aPower S

Complete solar and battery system

The aPower S is a battery storage device with integrated inverters to support a direct connection to solar (PV) panels. The front wiring design makes installation easier and more efficient.

The aPower S also supports parallel AC-coupled connection with FranklinWH aPower 2 batteries to expand power and capacity for homes at the same time. It can be flexibly deployed according to customer requirements. Excellent load adaptability provides the best backup experience to users.

aPower S has a 15 kWh capacity, which can provide whole home backup with a single battery. It provides a 60 MWh throughput or 15-year warranty, helping users to easily achieve reliable energy independence and freedom over the long term.



- ✓ Four built-in MPPTs
- ✓ 15 A per MPPT
- ✓ RTE 90.5%
- ✓ Safer LFP battery cell chemistry
- ✓ Built-in hybrid inverter
- ✓ 15 kWh per unit, up to 225 kWh (15 units) per aGate

- ✓ Max 11.5 kW continuous / 15 kW peak for 10 seconds
- ✓ Built-in heating blanket ensures reliable cold-weather performance
- ✓ Stable operations in extreme 131° F (55° C)
- ✓ IP67 weather protection

PERFORMANCE SPECIFICATIONS

Name	aPower S	Flood Resistance (IP67)	Up to 29" from the aPower S base
SKU	APRS-10K15V1-US	AC Metering	Revenue Grade (+/- 0.5%, ANSI C12.20)
Nameplate Model	aPower S-10	Safety Protections	Integrated arc fault circuit interrupter(AFCI), Isolation Monitor Interrupter
Certification / CEC Listing Name	aPower Syyy	User Interface	FranklinWH App
Battery Chemistry	Lithium Iron Phosphate (LFP)	Warranty ⁵	15 years or 60 MWh throughput
Usable System Energy	15 kWh ¹ per unit, up to 15 units per aGate		
Aggregate Warrantied Throughput	60 MWh		
Max Real Power (Charge)	8 kW continuous ²		
Max Real Power (Discharge)	11.5 kW ³ / 11.5 kVA continuous ²		
Nominal AC Voltage	120 / 240 V, 120 / 208 V, 60 Hz		
Coupling	Hybrid-Coupled		
Phase	2 W+N+PE		
Round Trip Efficiency (Solar - Battery - Load)	90.5% ¹		
Solar to Home / Grid - CEC Efficiency	97.5% ⁴		
Maximum Short-Circuit Current Rating	10 kA		
	Self-Consumption		
Work Modes	Time of Use Emergency Backup		
Noise Emission	30 dBA Typical 45 dBA Maximum		

Solar Technical Specifications

Maximum Solar STC Input	20 kW
Withstand Voltage	600 Vdc
PV DC Input Voltage Range	60 - 600 Vdc
PV DC MPPT Voltage Range	90 - 480 Vdc
MPPTs	4
Maximum Current per MPPT (Imp)	15 A ⁶
Maximum Short Circuit Current per MPPT (Isc)	20 A

DATASHEET

PERFORMANCE SPECIFICATIONS

Power Rated

Nominal Output Power (AC)	5 kW	7.6 kW	9.6 kW	10 kW	11.5 kW ³
Maximum Apparent Power	5 kVA	7.6 kVA	9.6 kVA	11.5 kVA	11.5 kVA
Maximum Continuous Current	21 A	32 A	40 A	48 A	48 A
Overcurrent Protection Device	30 A	40 A	50 A	60 A	60 A
Maximum Continuous Input Power	5 kW	7.6 kW	8 kW	8 kW	8 kW
Power Factor	±1	±1	±1	±0.87	±1

Off-Grid Specifications⁷

THDU	<1%
Voltage Regulation Accuracy	±1%
Frequency Accuracy	±0.1 Hz
Max Half-Wave Load Capability	5 kW ²
Max Peak Output Power	15 kW @ 10 S ²
Max Transient load capacity	25 kW @ 1 S ²
Load Imbalance Ratio	100%
Load Start Capability	185 A LRA ²

COMPLIANCE INFORMATION

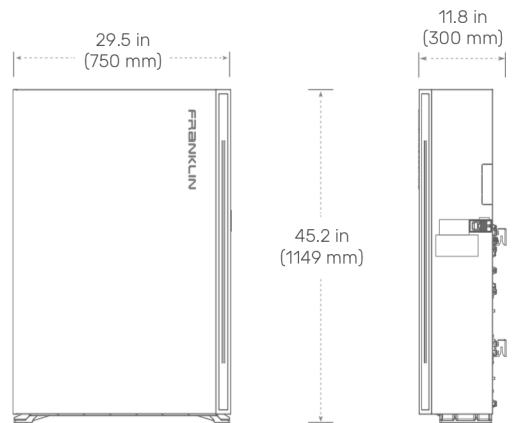
Certifications	UL9540; UL9540A; UL1973; UL1741; UL1741 SB; UL1741 PCS; UL 1741 Multimode; UL 1741 CRD; UL 3141; UL1699B; UL1998; UN38.3; IEEC 1547; IEEC 1547.1; CSA 22.2 No.107.1;
Seismic	AC 156, OSHPD, IEEC 693-2005 (high)
Environmental	California Proposition 65
Emissions	FCC Part 15 Class B, ICES 003

ENVIRONMENTAL SPECIFICATIONS

Enclosure Type	Type 3R
Ingress Protection	IP55 (Wiring) IP67 (Battery Pack & Inverter)
Operating Temperature	-4 °F to 122 °F (-20 °C to 50 °C) Operates up to 131 °F (55 °C) derated output
Operating Humidity (RH)	Up to 100% RH; condensing
Altitude	Maximum 9,843 ft (3,000 m)
Environment	Indoor / Outdoor

MECHANICAL SPECIFICATIONS

Dimensions (H x W x D)	45.2 in x 29.5 in x 11.8 in (1149 mm x 750 mm x 300 mm)
Weight, aPower S complete	388 lbs (176 kg)
Weight, without Cover	365 lbs (166 kg)
Mounting	Wall or floor mount
Cooling	Natural



- At beginning of life: 3 kW charge/discharge power, 77° F (25° C).
 - At rated power of 11.5 kVA.
 - When both PV and battery are supplying power, the system can deliver a continuous AC output of up to 11.5 kW. When powered by battery only, the continuous AC output is 10 kW. This is only applicable to aPower S units with 11.5 kW indicated on the product nameplate. Otherwise, the output power shall be based on the product nameplate.
 - Tested in accordance with the CEC-weighted efficiency approach.
 - For more details, please refer to the FranklinWH System Limited Warranty for End Users available in the Documentation Center on the FranklinWH website.
 - If the selected PV module has an IMPP exceeding 15 A, the MPPT will automatically limit the current to 15 A. The total open-circuit voltage must not exceed the maximum input voltage of 550 V.
 - The output performance is designed with reference to IEC 62040-3 (Uninterruptible Power Systems - Part 3; Method of specifying the performance and test requirements. A number of core indicators meet the requirements of high-performance UPS.
- For aPower connection, use ONLY copper conductors, rated to a minimum of 194° F (90° C).

Note:

At launch, the aPower S will only be compatible with external RSD transmitter products. It is certified and listed as a Photovoltaic Rapid Shutdown System (PVRSS) when installed with approved equipment. For a list of compatible devices and installation requirements, please refer to the Documentation Center or contact engineering@franklinwh.com.

The aPower S (SKU: APRS-10K15V1-US) is available in the United States and Canada. For product availability in other regions, please visit our official website or contact a local authorized dealer.

Address: 1731 Technology Dr., Suite 530 San Jose, CA 95110 **Telephone:** +1 888-837-2655 **Email:** info@franklinwh.com **Website:** www.franklinwh.com

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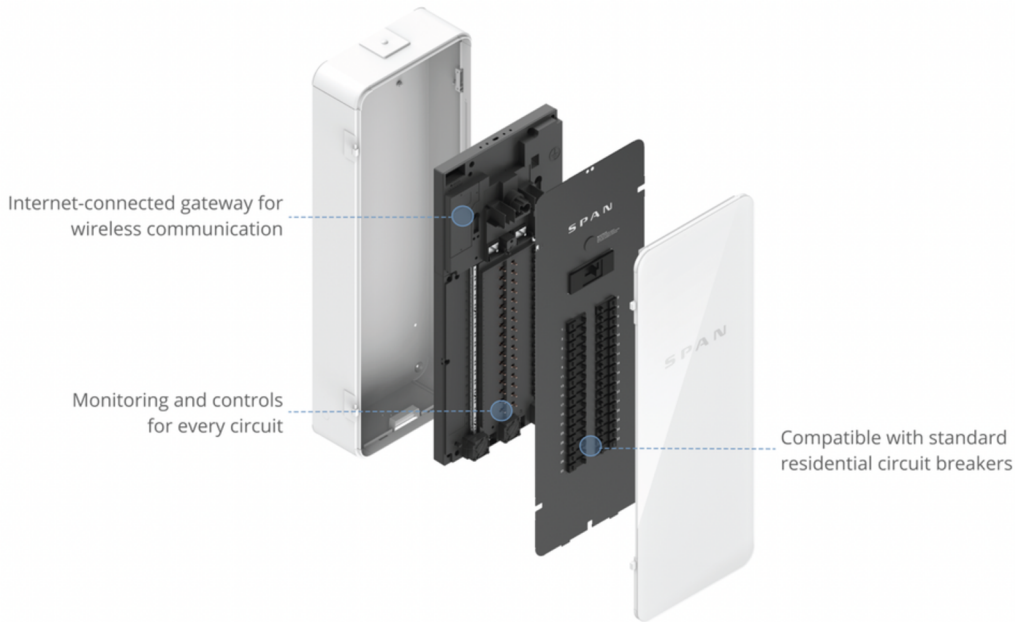




SPAN

A smarter electrical panel

- Monitor and control every circuit
- Unprecedented home energy insights
- Fully customizable backup when paired with storage



Electrical

- Integrated grid disconnect relay
- Revenue accurate energy monitoring
- 100 - 200A main breaker
- 225A bussing

Installation

- Indoor and outdoor rated
- Surface or flush-mount
- Compatible with standard 1" breakers

Connectivity

- Ethernet, WiFi, Cellular
- Free over-the-air updates



Intuitive Control

SPAN goes beyond monitoring with the SPAN Home app for real-time control and energy insights to bring your home energy to life.

Combined with battery storage, SPAN gives homeowners the power to choose and change backup priorities whenever they want.

Become a Certified Installer

SPAN is designed to completely replace the traditional electrical panel for new build or retrofit. The all in-one-design and Installer App allow for simple installation and same-day commissioning.

Learn more at www.span.io/partners

Performance Specifications

AC Voltage (Nominal)	120/240 V
Grid Connection	Split Phase
Grid Frequency	60 Hz
Disconnect Current	200 A
Busbar Rating	225 A
Sub-feed Lug Rating	200A max
Maximum Input Short Circuit Current	22 kA ¹
Main Overcurrent Protection Device	100-200 A Breaker ²
Controllable Circuits	32 (90 A max per breaker) ³
Overvoltage Category	Category IV
AC Metering	ANSI revenue accurate (+/- 0.5%)
Primary Connectivity	Ethernet, WiFi (2.5, 5 GHz)
Secondary Connectivity	Cellular (4G/LTE, 3G)
User Interface	Span Home App (iOS, Android)
Warranty	10 years

¹ 22 kA RMS symmetrical with main breaker installed, otherwise 10 kA

² Service Entrance Rated when main breaker installed

³ Compatible with tandem/quad style breakers at all positions. Monitoring and control is combined when used.

Environmental Specifications

Operating Temperature	-22 to 122°F (-30 to 50°C)
Operating Humidity (RH)	Up to 100% condensing
Maximum Elevation	2000 m (6562 ft)
Environment	Indoor and Outdoor rated
Enclosure Type	NEMA 3R

Mechanical Specifications

Enclosure Dimensions	39.3 x 14.3 x 6.0 in (998 x 362 x 153 mm)
Flush Trim Kit Dimensions	44.2 x 15.9 in (1123 x 405 mm)
Mounting Options	Wall mounted, flush or surface
Weight	75 lbs (34 kg)

Compliance Information

Certifications	UL 67, UL 916, UL 869A
Emissions	FCC Part 15 Class B
Other	NEC compliant

Additional Features

- Customizable Battery Backup
- Backup Time Remaining Estimates
- Real-time Load Control
- Energy Monitoring & Insights
- Load Management for Upgrade Avoidance



Universal Wall Connector

The Tesla Universal Wall Connector is an efficient and convenient charging solution that lets you plug your electric vehicle in overnight and start your day fully charged. It is compatible with Tesla and non-Tesla electric vehicle models. It provides up to 48A of continuous current that offers 77 km or 44 miles of range per hour of charge. It is approved for indoor and outdoor installation. The Universal Wall Connector can support AC charging for vehicles with NACS or J1772 chargeports through the use of a J1772 adapter that docks into the side of the Wall Connector.



Wall Connector

Performance Specifications

Part Numbers	1734412-02-X; 1734412-03-X
Nominal Voltage	200-240 V L-L 1-phase
Current	Maximum 48A (adjustable by installer)
Grounding Scheme	TN/TT
Frequency	50/60 Hz
Means of Disconnect	External branch circuit breaker
Residual Current Detection	Integrated, CCID20
Short Circuit Current Rating	14kA
Connectors	NACS, J1772
Connectivity	Wi-Fi (2.4 GHz, 802.11b/g/n)

Compliance Information

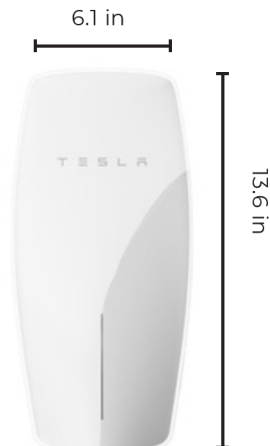
Agency Approvals	cULus - E351001
Standards	UL 2594, UL 2231
Energy Star Certified (Applicable to U.S. only)	

Environmental Specifications

Operating Temperature	-22 °F to 122 °F (-30 °C to 50 °C) -40 °F to 185 °F (-40 °C to 85 °C)
Storage Temperature	Type 3R
Enclosure Rating	

Mechanical Specifications

Wall Connector Dimensions	13.6 in x 6.1 in x 5.9 in
Wire Box Bracket Dimensions	9.8 in x 4.7 in x 3.5 in
Weight (Including bracket)	15 lbs (6.8 kg)
Cable Length	1734412-02-X: 24 ft (7.3 m) 1734412-03-X: 13.1 ft. (4 m)



STANDARD CONTRACT LANGUAGE
ATTACHMENT D

Attached on the following pages



This Solar Energy Installation Agreement (“Agreement”) made this day, {{Timestamp}}, (“Effective Date”) by and between SOLAR ENERGYSOLUTIONS, LLC, a Kentucky limited liability company, 1038 Brentwood Ct., Suite B, Lexington, KY 40511 (hereinafter called “Contractor”) and {{Contact First Name}} {{Contact Last Name}} (hereinafter called “Client”).

WHEREAS, the Client wishes to employ the Contractor to design a solar system (“Project”) for the purpose of producing electricity and/or energy storage at {{Deal Full Install Address}} (the “Location”).

1. Generalities.

The Contractor shall design the aforementioned system(s) for the location, hereto specified by the Client set forth in Attachment A (hereinafter called the “Scope of Services or Scope of Work”). In situations where prevailing natural disasters, acts of God, wars, governmental actions or Client availability causes the design of a solar or energy storage system to be executed remotely, without direct site inspection, the Contractor reserves the right to amend the “Scope of Services” described in Attachment A subsequent to a formal on site design review. Any such changes will be by equitable adjustment and this Agreement shall be modified in writing accordingly pursuant to a written change order signed by both parties.

2. Additional Services.

If requested by the Client, the Client and the Contractor will negotiate for additional services in connection with this Agreement and will set forth any additional services in writing.

3. Client’s Responsibilities.

The Client shall:

- a. Continue to promptly provide full information as to the Client’s needs and requirements for the Project to Contractor or its designate.
- b. Assist the Contractor by placing at its disposal all available information pertinent to the Work to be performed under the “Scope of Services” described in Attachment A.
- c. Give prompt written notice to the Contractor whenever the Client observes or otherwise becomes aware of any defect (or significant variance) in the Work or apparent non-conformance of Work performed in accordance with the “Scope of Services” as set forth in Attachment A, or of any change of circumstances.

4. Compensation.

The total compensation to be paid to the Contractor for the Work is set forth in Attachment A.

Contractor shall be paid for the Work upon the following schedule:

Payment Milestone	Amount
i. Deposit 20% on or prior to order (the Retainer)	$\$ \{ \{ = \text{Deal Amount} * 20 / 100 \} \}$
ii. Delivery of Goods & Installation 50% upon delivery of goods on site and commencement of installation	$\$ \{ \{ = \text{Deal Amount} * 50 / 100 \} \}$
iii. System Activation (Power Production) 30% and all balances upon system activation (power production)*	$\$ \{ \{ = \text{Deal Amount} * 30 / 100 \} \}$
Total	$\$ \{ \{ = \text{Deal Amount} * 1 \} \}$

*If the system is installed on a new home build that isn't ready for occupancy, the homeowner may retain 10% of the system price until system activation (producing power), or 3 months from the mechanical and electrical system completion, whichever comes first.

Invoices not paid within thirty (30) days of the invoice due date shall be subject to a late fee of three percent (3%) per month of that invoice's amount or the maximum amount allowed by law, computed at 30 days from the date of the invoice. The contractor shall retain title to all equipment installed under the Work and retain its statutory lien rights until paid in full.

5. Time of Completion.

The Work to be performed by the Contractor is to be completed according to a schedule set and discussed with Client. This completion date, if stated, may be extended in the event of circumstances beyond the control of the Contractor, including, but not limited to, failure by the Client to make timely payments, war, insurrection, supply chain disruption or Acts of God. In such circumstances, the Contractor will provide a new completion date to the Client, in writing, within 30 days of the incident(s) or circumstance(s) compelling the change of time of completion. If the Client initiates a delay or stoppage for any reason beyond Contractor's control, Contractor reserves the right for an extension which may exceed the number of days delayed.

6. Procurement of Licenses and Permits.

The Contractor shall secure all licenses and permits necessary for proper completion of the Work under this Agreement, paying the fees for such licenses and permits. Client agrees to cooperate in connection with Contractor's efforts to secure licenses and permits as requested by Contractor. Contractor's obligation to commence the Work shall be contingent on the acquisition of any and all required permits, licenses or approvals.

7. General Provisions.

a. Standards of Performance.

The standard of care for all services performed or furnished by the Contractor under this Agreement will be the care and skill ordinarily used by members of the Contractor's profession, practicing under similar circumstances at the same time and in the same locality.

b. Warranty.

i. *Limitation Of Warranties.* There are no understandings, terms, conditions or warranties other than as specifically set forth herein.

ii. *Limited Warranty.* Contractor warrants that the Work described in Attachment A and delivered under this Agreement will conform to its specifications and will be free from defects in materials, workmanship, and roof penetrations specific to the solar system installation as of the date of delivery for a period of three (3) years. This limited warranty applies only to systems and components installed by the Contractor or its certified subcontractors and assumes no post-installation

modifications by the Client or any third party not authorized in writing by the Contractor.

Any modifications to the system—including but not limited to the addition of solar panels, inverters, batteries, or wiring—by the Client or any third party not certified or approved by the Contractor shall void this limited warranty with respect to the affected system components and any systems impacted by such modification. For clarity, unauthorized additions may also void roof penetration warranties and inhibit Contractor's ability to support service or warranty claims. Clients wishing to expand or modify the system must engage the Contractor to assess and, if appropriate, integrate such additions under a new agreement.

iii. Disclaimer of Implied Warranties. Contractor disclaims all implied warranties with respect to the work, including the implied warranties of merchantability, freedom from infringement claims, and fitness for a particular purpose. There are no warranties which extend beyond the warranty set forth herein.

iv. Exclusion for Monitoring Interruptions Caused by Client Network Changes. Service visits required due to an interruption in solar monitoring caused by changes to the Client's internet service or wireless network including, but not limited to, changing or replacing a Wi-Fi router, changing internet service providers, or changing the Wi-Fi network name or password are not covered under this Agreement or any warranty. Any such service visit will be performed at the Client's request and expense, billed at the Contractor's then-current service rates.

c. Limitation of Liability.

i. Limitation of Client's Remedies. Contractor's sole and exclusive liability hereunder shall be limited to the obligation to repair or replace only those portions of the Work that have been proven to have failed to meet the written specification at the time of delivery and have failed within the time periods set forth above, or allow credit therefor upon mutual agreement of the parties. Contractor's total cumulative liability in any way arising from or pertaining to any Work shall not in any case exceed the compensation paid by Client for such non-conforming Work. Contractor will not be liable to Client, its customers, employees or agents, under any claim or circumstances (including without limitation any circumstance involving a finding that a warranty or remedy has failed of its essential purpose), whether the claim sounds in contract, tort or other legal theory, for indirect, incidental or consequential damages, including without limitation damages for lost profits or revenue, lost sales, lost goodwill or loss of use of any product.

ii. *Limitation Of Liability For Failure Or Delay In Delivery.* Delivery dates are approximate and are based on conditions existing at the time of commencement of the Work. In no event shall the Contractor be responsible or liable for any damages, including special, indirect, incidental or consequential damages arising from any failure or delay in delivery.

iii. *Limitation of Power Production Guarantees.* Contractor does not provide a performance guarantee for the amount of power to be produced from the Work as such performance is conditioned upon local meteorological conditions, vegetative shading and Client system maintenance and upkeep.

d. Changes.

The Client may, at any time by written notice, make changes to the Work provided; however, that if such changes cause an increase or decrease in the Contractor's expenses, or time required, for performance of any services, whether or not changed by any order, an equitable adjustment shall be made and this Agreement shall be modified in writing accordingly pursuant to a written change order signed by both parties. In the event that the Contractor finds non-visible or unforeseen defects or circumstances which pose a barrier to completion of the installation of the system(s), including but not limited to asbestos, rot and mold (or other environmental conditions), the Contractor will notify the Client of the non-visible defects, so that the parties may negotiate an equitable modification of the terms of this Agreement. In the event the Contractor discovers any non-visible barriers to completion of the installation of the systems, including but not limited to rock preventing ground racking insertion, roof condition, existing code failures and spatial limitations, the Contractor will notify the Client so the parties can negotiate an equitable modification of the terms of this Agreement pursuant to a written change order.

e. Force Majeure

Either Party shall be excused from performance and shall not be in default in respect of any obligation hereunder to the extent that the failure to perform such obligation is due to a Natural Force Majeure Event. Force Majeure events include but are not limited to natural disasters, acts of God, wars, strikes, supply chain disruptions, governmental actions, trade sanctions or tariff impositions.

f. Third-Party or Homeowner Modification

The Contractor's warranties and performance obligations shall apply only to systems, components, and workmanship provided and installed by the Contractor or its certified subcontractors. The Contractor shall not be responsible for any actual or consequential damage, system underperformance,

service disruption, hazard, or warranty claim arising from any system modifications, component additions (including but not limited to additional solar panels or battery storage), or alterations made by the Client or any third party not certified or authorized in writing by the Contractor.

Any such unauthorized modification shall void all Contractor warranties (including workmanship and roof penetration warranties) with respect to the affected system components and any systems impacted by such modification. If Client desires to expand or alter the system post-installation, such work must be reviewed and approved in writing by the Contractor in advance.

8. Successor and Assigns.

The Client and the Contractor each binds itself and its partners, successors, executors, administrators, and assigns to the other party of this Agreement and to the partners, successors, executors, administrators, and assigns of such other party, in respect of all covenants of this Agreement; except as above, neither Client nor Contractor shall assign, sublet or transfer its interest in this Agreement without prior written consent of the other. Client recognizes that acceptance of Attachment A by Contractor constitutes prior written consent. Nothing herein shall be construed as creating any personal liability on the part of any officer or agent of any public body which may be a party thereto, nor shall it be construed as giving any rights or benefits hereunder to anyone other than Client and Contractor.

9. Dispute Resolution.

a. Claims, disputes or other matters in question between the parties to this Agreement shall be first subject to mediation prior to the filing of any arbitration. Mediation is a condition precedent to arbitration. The obligation to mediate is a material and essential provision of this Agreement.

b. Unless otherwise agreed in writing, the Contractor shall carry on the Work and maintain its progress during any mediation or arbitration, and the Client shall continue to make payments to the Contractor in accordance with this Agreement.

c. Either party may initiate a mediation proceeding by submitting a request in writing to the other party within thirty (30) days after the claim, dispute or other matter in question has arisen.

d. The parties shall endeavor in good faith to mutually agree upon an acceptable mediator. In the event the parties have not agreed upon a mediator within 30 days of the request for mediation, the Contractor shall select a mediator. Each party is to bear its own fees, costs and expenses, of said mediation.

e. In the event that mediation is unsuccessful, the parties shall submit to binding arbitration. This Agreement shall be governed in all aspects by the laws of the Commonwealth of Kentucky. All disputes, if not settled by mediation, which may arise relating to this Agreement, shall be settled according to the arbitration rules of the American Arbitration Association by one (1) arbitrator appointed to settle the dispute. Arbitration shall be held exclusively in Louisville, Kentucky and the decision of the arbitrator shall be binding on both parties. The prevailing party shall have the right to enforce such decision in the state or Federal courts sitting in Jefferson County, Kentucky, and each party submits to the exclusive jurisdiction thereof. Each party waives any defense of forum non-conveniens, or like defense. The decision of the arbitrator shall be final and obligatory for both parties. The cost of such arbitration will be divided equally by the Parties, provided that the prevailing party shall be entitled to recover its reasonable attorneys' fees and expenses incurred in mediation or arbitration from the losing party.

10. Indemnity.

a. Subject to the provisions and limitations set forth in Sections 7(b) and (c) of this Agreement, the Contractor shall hold harmless and indemnify the Client and his officials, agents, and employees against any and all claims, loss, damage, injury, fines, penalties, and costs, including reasonable court costs and attorney fees, arising out of or caused by the Contractor's intentional, willful, wanton, reckless, or negligent acts, errors, or omissions in the Contractor's performance under this Agreement, including the actions, errors, or omissions of the Contractor's officials, agents, or employees in performance under this Agreement.

b. The Client shall hold harmless and indemnify the Contractor and its officials, agents, and employees against any and all claims, loss, damage, injury, fines, penalties, and costs, including reasonable court costs and attorney fees, arising out of or caused by the Client's intentional, willful, wanton, reckless, or negligent acts, errors, or omissions in the Client's performance under this Agreement, including the actions, errors, or omissions of the Client's officials, agents, or employees in performance under this Agreement.

11. Termination.

Either party may terminate this Agreement in whole or in part after giving written notice of termination (specifying specific portions being terminated, if terminated in part,) at least thirty (30) days before date of termination. The Client may terminate this Agreement at any time by giving thirty days (30) notice to the Contractor. If this Agreement is terminated, the Contractor shall be compensated

for Work actually performed and expense(s) incurred by Contractor up to the date of termination, including administrative, design Work or Work subrogated to other parties.

12. Counterparts.

This Agreement may be executed in two or more original or facsimile counterparts, each of which shall be deemed an original and all of which shall constitute but one and the same Agreement.

13. Complete Agreement.

This Agreement constitutes the entire Agreement and understanding between the parties hereto and replaces, cancels and supersedes any prior oral or written Agreements and understandings relating to the subject matter hereof.

14. Construction.

Should any provision of the Agreement require interpretation or construction, it is agreed by the parties hereto that the Court, administrative body or other entity interpreting or construing this Agreement shall not apply a presumption that the provision hereof shall be more strictly construed against one party than another by reason of the rule of construction that a document is to be more strictly construed against the party who itself or through its agent prepared the same. The headings of sections and subsections are convenience only and shall not affect or control the meaning or construction of any of the provisions of this Agreement.

15. Notices.

All notices, requests, demands, or other communications required under this Agreement shall be made in writing and shall be served by hand delivery or by placing such in the United States Mail, certified mail, return receipt requested and bearing adequate postage. Each notice shall be effective upon receipt.

16. Confidentiality.

The Client shall not disclose nor permit disclosure of any information specifically designated by the Contractor as confidential or proprietary, except to its employees and other sub-consultants who need such information in order to

properly execute the services of this Agreement. If the Contractor determines the Client has informed the Contractor's competitors of processes proprietary to the Contractor, the Contractor can file suit to request mediation or court award of any damages incurred.

17. Ownership of Work Product.

The Contractor shall continue to be the owner of all drawings, electronic media files, reports and other material provided to the Client unless otherwise agreed in writing. The Contractor may keep copies of all Work products. In the event that the Client should use any Work product from this Agreement on any future Projects unrelated to (or outside the scope or) the subject of this Agreement, the Client shall assume full responsibility for such use and shall hold the Contractor harmless from any claims, lawsuits or challenges to such subsequent use or performance. The Contractor shall have the right to change appropriate royalty fees from the Client for the additional use thereof. The Contractor shall have the right to display and distribute images of the system(s) as installed for purposes of advertising, promotion or subsequent research and development.

18. Waiver.

No waiver by either party of any default or non-performance by either party shall be considered a waiver of any subsequent default or non-performance.

19. Records Retention.

All records related to this Agreement shall be retained by both parties for a period of four (4) years after the conclusion of this Agreement. Records relating to any claim arising out of the performance of this Agreement or costs and expenses of this Agreement to which exception has been taken by either party shall be retained by the other party until the claim has been resolved.

20. Severability.

In the event any term, provision or covenant hereunder shall be held invalid or unenforceable by a court of competent jurisdiction, the remainder of this Agreement shall remain valid and enforceable by any party and the invalid unenforceable covenant shall automatically be deemed modified and amended to provide the maximum rights available under applicable law to the party who is the beneficiary of the covenant in question.

21. Authority of Parties.

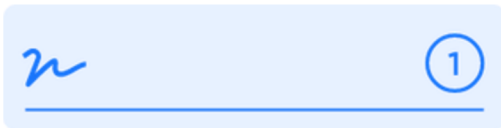
The individuals who have executed this Agreement on behalf of the respective parties expressly represent and warrant that they are authorized to sign on behalf of such entities for the purpose of duly binding such entities to this Agreement.

22. Right To Cancel.

You, the buyer, may cancel this transaction at any time prior to midnight of the third business day after the date of this transaction. See the attached notice of cancellation form for an explanation of this right.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day and year first above written.

CLIENT: {{Contact First Name}} {{Contact Last Name}}



Address: {{Deal Full Install Address}}

Contact phone #: {{Contact Phone Number}}

Contact email: {{Contact Email}}

Solar Energy Solutions and {{ContactFirst Name}} {{Contact Last Name}}
{{Deal Full Install Address}}
(Attachment A – Residential) {{Timestamp}}

{{Deal System Size (Kw)}} kW Solar Array

Scope of Services:

Design, Engineering, and Management

Solar Modules

{{Deal # Of Modules 1}} {{Deal Module Type 1}} {{Deal # Of Modules 2}} {{Deal Module Type 2}}

Inverters

{{Deal # Of Inverters 1}} {{Deal Inverter Type 1}} {{Deal # Of Inverters 2}} {{Deal Inverter Type 2}} {{Deal # Of Inverters 3}} {{Deal Inverter Type 3}}

Batteries

{{Deal # Of Batteries}} {{Deal Battery Type}}

Battery Expansion Packs

{{Deal # Of Battery Expansion Packs}} {{Deal Battery Expansion Type}}

Other Hardware & Components, Component Warranties, Services and Additional Warranties
{{Deal Sold Adders}}

Warranties:

{{Deal Sold Warranties}}.

Wiring, Installation, and Workmanship Warranty

- All labor required for installation and commissioning of the system
- All consumables, small and miscellaneous parts
- All permitting, inspection, utility administration and fees**
- 3 year workmanship warranty* (Warranty is valid only if the system remains unmodified by unauthorized parties.)

****Specifically excluded are utility interconnection, utility equipment and utility upgrade costs in addition to utility bill adjustments, unless noted in Attachment A. Should SES be made aware of any such utility costs, SES will promptly notify Customer and the parties will endeavor to come to a suitable agreement or void this contract without penalty to either party.**

TOTAL COST INSTALLED

\$ {{Deal Amount}}

*Solar Energy Solutions does not provide financial advice and encourages customers to consult with their tax professional for any IRS claims made. END OF ATTACHMENT 'A'

PROPOSAL TEMPLATE

ATTACHMENT E

The following template was designed to incorporate all the information requested in the RFP, but if it requires further refinement to comply with the program details, we will work with Solarize Lexington to ensure the proposal includes everything needed.

Note: The pricing in the attached proposal example doesn't reflect the program pricing proposed in our bid, but rather shows the information that will be presented to the customer.

Prepared by: Julie Jones
513-477-5814
Julie@sesre.com

For: Sierra Solar

Quote #: 776538



Solarize Lexington

Hello Sierra, Thank you for your interest in the Solarize program and Solar Energy Solutions (SES). SES is thrilled to have been vetted and selected by the City in a competitive bidding process to serve the greater Lexington area with high-quality solar systems at a discounted program rate. Solar Energy Solutions was founded in 2006 and has served Kentucky for 20 years. I look forward to working with you.
Best regards,

Julie





Solar Energy Solutions (SES) is the region's largest and most experienced solar design, engineering, and construction company in the Midwest, with locations in Illinois, Indiana, Kentucky, Ohio, and Virginia. SES is also the region's leading Tesla Powerwall Certified Installer. Founded in Kentucky in 2006, Solar Energy Solutions has more than 3,000 active photovoltaic and battery storage projects in the residential, commercial, and utility arenas throughout the tri-state region and beyond.

OUR APPROACH

Think Design:

At SES our best work begins before we even lift a tool. Anyone can learn to install a panel, but we design and engineer systems to meet the needs of each unique project. That means skillfully having a vision for the intended results, planning the best path to get there, and making it last a lifetime.

Embrace The Details:

At SES we are in a technical field where the smallest parts are critical to the success and 25+ year life of the whole system. Therefore, from design to installation and from people to the product, the details matter, and we pay attention to them to ensure our success for our customers.

Go The Extra Mile:

At SES we will over-deliver when we can, providing our customers with more than their money's worth. Likewise, we work hard to give advice and support that goes beyond our customers' expectations to be as thorough as possible and deliver the best long-term solution. Therefore, if we make a mistake, we own it and correct it to your satisfaction.

Always Learning:

At SES we are stewards of a new and rapidly growing industry. And so, as leaders in our field, it is our responsibility to continue our education and remain informed and acquainted with the latest technologies and methods of our craft.

Show Respect:

At SES we treat our customers, and each other, with acceptance, courtesy, and the esteem due to any member of our community. We want to earn their business with our expertise, experience, and ethical approach to solar.

Advocacy:

At SES we are the protectors of solar power at a regional, state, and local level. Consequently, we place our resources, people, and voice behind its continued growth and success. Our passion and enthusiasm stems from knowing our political advocacy efforts not only ensure our industry but also solidify the confidence our customers have in solar as a long-term solution.

Be Ethical:

At SES we manage our conduct by what is right for people, their investment, the environment, and the profession we love. And so, we are in business primarily to solve the world's #1 issue of climate change and to grow local, sustainable jobs. Profits follow.

Solar Energy Solutions (SES) has been selected as the official solar installation partner for the Solarize campaign. SES is the region's largest and most experienced solar design, engineering, and construction company with projects in Indiana, Kentucky, Ohio, and the surrounding states. SES is also the region's leading Tesla Powerwall Certified Installer. Founded in Kentucky in 2006, SES has more than 3,250 active photovoltaic and battery storage projects in the residential, commercial, and utility arenas throughout the tri-state region and beyond. SES has also participated in solarize campaigns in Lexington, Cincinnati, Bloomington, Indianapolis, and other regional counties.

A review panel consisting of the Metro Government and KYSES, a community solar advocate, worked together to select the vetted installer through a rigorous competitive process. Some factors that were considered when selecting an installer were:

- Affordability of pricing and financing options
- Quality of and longevity of the company's work history
- Quality of hardware and warranties, and
- Number of local jobs supported

Recommended System Option

9.02 kW

System Size

\$23,632

Total System Price

\$23,632

Net Cost of this solar system

10,498 kWh

Estimated Annual Solar Generation



Your Solution

Solar Panels

NE Solar

9.0 kW Total Module Power

22 x 410 Watt Panels (NESE 410-54MH-M10)

10,498 kWh per year

2-Year Workmanship Warranty Extension

Extends Workmanship Warranty to total of 5 years as part of a local Solarize Campaign

1 x Additional 2-year Solarize Warranty Extension

Inverter

Tesla 7.6 kW Total Inverter

Rating 1 x 1538000-xx-y

7.6kW

The price per watt of this system, including any upgrades and additions, is 2.62.

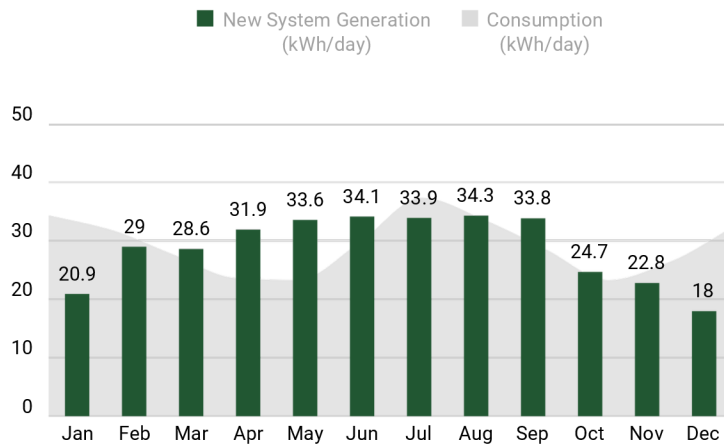
Manufacturer warranties: Warranties: 12 Year Panel Product Warranty, 25 Year Panel Performance Warranty, 12 Year Inverter Product Warranty.

This contract is executed between Solar Energy Solutions and Sierra Solar. The city and other campaign partners are not parties to this contract. Solar Energy Solutions is solely liable for any claims, losses, or damages arising out of the contract

**** Due to supply chain constraints, SES reserves the right to substitute panels of equal or greater quality from another manufacturer. Inverter sizing is estimated and will be finalized in engineering.**

System Performance

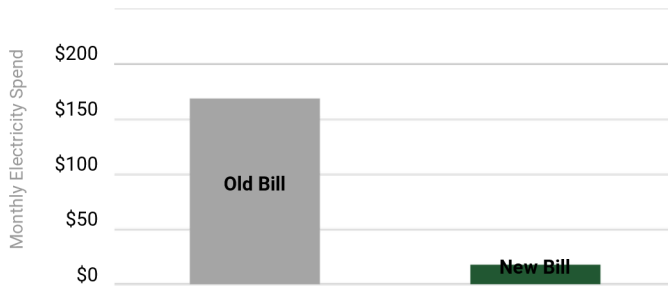
98%
Energy From Solar



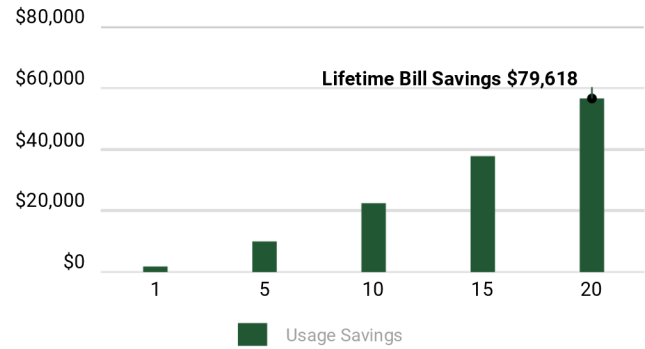
System Performance Assumptions: System Total losses: 20.6%, Inverter losses: 2.0%, Optimizer losses: 0%, Shading losses: 4.9%, Performance Adjustment: 0%, Output Calculator: System Advisor Model 2020.02.29.r2. Panel Orientations: 22 panels with Azimuth 185 and Slope 37.

Electricity Bill Savings

First Year Monthly Bill Savings



Cumulative Bill Savings



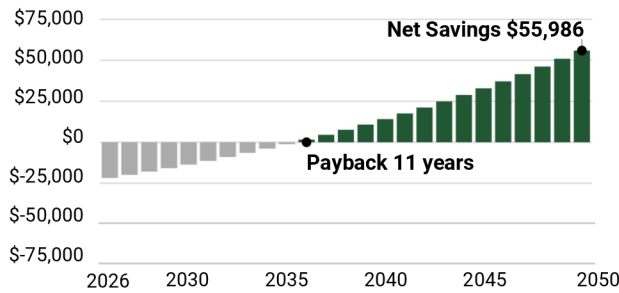
Month	Solar Generation (kWh)	Net Grid Consumption before new system (kWh)	Net Grid Consumption after new system (kWh)	Utility Bill before new system (\$)	Utility Bill after new system (\$)	Cumulative Energy Credit (\$)	Estimated Savings (\$)
Jan	648	1,064	416	197	84	0	112
Feb	811	892	81	169	25	0	144
Mar	886	857	(29)	163	10	5	152
Apr	957	709	(248)	137	10	49	126
May	1,040	721	(319)	139	10	106	128
Jun	1,024	891	(132)	169	10	130	159
Jul	1,051	1,157	107	216	10	111	206
Aug	1,063	1,041	(22)	196	10	115	185
Sep	1,014	855	(160)	163	10	143	152
Oct	765	721	(43)	139	10	151	128
Nov	683	793	110	152	10	131	141
Dec	557	1,002	446	189	10	0	178

Your projected energy cost is calculated by considering a 4.8% increase in energy cost each year, due to trends in the raising cost of energy. This estimate is based on your selected preferences, current energy costs and the position and orientation of your roof to calculate the efficiency of the system. Projections are based on estimated usage of 10704 kWh per year, assuming Residential Service Electricity Tariff.

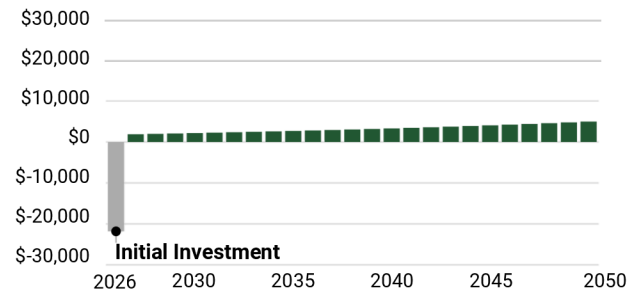
Net Financial Impact Price

$$\begin{array}{rcl}
 \$79,618 & - & \$23,632 & = & \$55,986 \\
 \text{Utility Bill Savings} & & \text{Net System Cost} & & \text{Estimated Net Savings}
 \end{array}$$

Cumulative Savings From Going Solar



Annual Savings From Going Solar



\$16,796

Net Present Value

14 Years
1 Month

Discounted Payback
Period

237%

Total Return on
Investment

10.0%

Rate of Return on
Investment

Year	Electricity Consumption (kWh)	Solar Generation (kWh)	Utility Bill (before new system) (\$)	Utility Bill (after new system) (\$)	Annual Savings (from new system) (\$)	System Costs (Net of Dealer Incentives) (\$)	Customer Incentives (Upfront) (\$)	Net Savings (\$)	Cumulative Impacts (\$)
2026	10,704	10,498	2,027	213	1,814	23,632	0	(21818)	(21818)
2027	10,704	10,440	2,124	224	1,901	0	0	1900	(19918)
2028	10,704	10,382	2,226	236	1,990	0	0	1990	(17927)
2029	10,704	10,324	2,333	249	2,084	0	0	2084	(15843)
2030	10,704	10,267	2,445	263	2,182	0	0	2182	(13661)
2031	10,704	10,209	2,563	277	2,285	0	0	2285	(11375)
2032	10,704	10,151	2,686	294	2,392	0	0	2391	(8984)
2033	10,704	10,093	2,815	323	2,492	0	0	2492	(6492)
2034	10,704	10,036	2,950	353	2,597	0	0	2596	(3895)
2035	10,704	9,978	3,091	386	2,706	0	0	2705	(1189)
2036	10,704	9,920	3,240	421	2,819	0	0	2819	1629
2037	10,704	9,863	3,395	458	2,937	0	0	2937	4566
2038	10,704	9,805	3,558	498	3,060	0	0	3060	7626
2039	10,704	9,747	3,729	541	3,188	0	0	3188	10814

Year	Electricity Consumption (kWh)	Solar Generation (kWh)	Utility Bill (before new system) (\$)	Utility Bill (after new system) (\$)	Annual Savings (from new system) (\$)	System Costs (Net of Dealer Incentives) (\$)	Customer Incentives (Upfront) (\$)	Net Savings (\$)	Cumulative Impacts (\$)
2040	10,704	9,689	3,908	587	3,321	0	0	3321	14135
2041	10,704	9,632	4,096	636	3,460	0	0	3459	17595
2042	10,704	9,574	4,292	688	3,604	0	0	3604	21200
2043	10,704	9,516	4,498	744	3,754	0	0	3754	24954
2044	10,704	9,458	4,714	803	3,911	0	0	3910	28865
2045	10,704	9,401	4,940	867	4,073	0	0	4073	32938
2046	10,704	9,343	5,178	935	4,243	0	0	4242	37181
2047	10,704	9,285	5,426	1,007	4,419	0	0	4418	41600
2048	10,704	9,227	5,686	1,084	4,602	0	0	4602	46202
2049	10,704	9,170	5,959	1,167	4,793	0	0	4792	50994
2050	10,704	9,112	6,245	1,254	4,991	0	0	4991	55985

Estimates do not include replacement costs of equipment not covered by a warranty. Components may need replacement after their warranty period. Financial discount rate assumed: 5.0%

Quotation

This contract is executed between Solar Energy Solutions and Sierra Solar. Solarize Louisville, Louisville Metro, the Louisville Sustainability Council, Kentucky Solar Energy Society, and other campaign partners are not parties to this contract. Solar Energy Solutions is solely liable for any claims, losses, or damages arising out of the contract

****Due to supply chain constraints, SES reserves the right to substitute panels of equal or greater quality from another manufacturer. Inverter sizing is estimated and will be finalized in engineering.**

Payment Option: Price

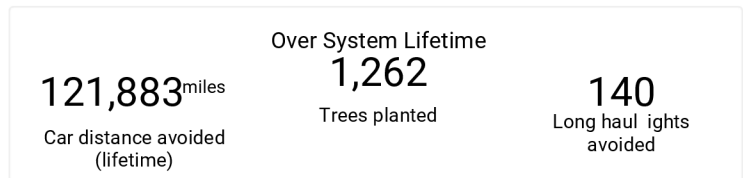
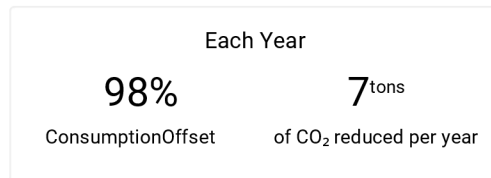
22 x NE Solar 410 Watt Panels (NESE 410-54MH-M10) 1 x 1538000-xx-y 7.6kW (Tesla) 1 x Solarize Warranty extension to 5 year warranty	
Total System Price	\$23,632.40
Purchase Price	\$23,632.40
Deposit Payable	\$4,726.48

Payment Milestones

i. Deposit 20% on or prior to order (the Retainer)	\$4,726.48
ii. Delivery of Goods & Installation 50% upon delivery of goods on site and commencement of installation	\$11,816.20
iii. System Activation (Power Production) 30% and all balances upon system activation (power production)*	\$7,089.72
Total	\$23,632.40

Environmental Benefits

Solar has no emissions. It just silently generates pure, clean energy.



We can't wait to work with you on your project. Select the option that you want and click accept to move on to sign your contract document and financing if selected. We're here to help so please reach out to Julie Jones at Julie@sesre.com or 513-477-5814 if you have any questions.

WORKMANSHIP WARRANTY

ATTACHMENT F



SOLAR ENERGY
SOLUTIONS

Warranty

Installation

Solar Energy Solutions LLC warrants the installation of its Photovoltaic array system for five years from date of installation. Solar Energy Solutions LLC warrants its system to be free from defects in workmanship and materials under installed service conditions. Solar Energy Solutions LLC warrants that it will replace or repair any faulty materials free of charge during the warranty period. Solar Energy Solutions LLC makes no claims to warrant any materials damaged by end user abuse or mismanagement. This warranty applies exclusively to system purchaser. Warranty becomes void upon transfer of ownership. Solar Energy Solutions LLC also bears no responsibility for damages resulting from system alterations performed by end user or other parties.

Manufacturer warranties

The equipment installed benefits from manufacturer warranties as per the attached documents.

STANDARD TOOLS AND SOFTWARE

ATTACHMENT G

OpenSolar

SES uses OpenSolar, a solar design and proposal tool. OpenSolar streamlines and improves our proposal capabilities in the following ways.

- 3D Design, Leading Accuracy
 - The fastest, most straightforward, and most accurate 3D design tool makes your proposals streamlined and reliable from the office and the field.
- Upgraded Proposal Design
 - Fully customizable, interactive proposals online or as a PDF. This will allow going over proposals in person, online, or over the phone, with the ability to modify the online proposal in real time with customer input.
- Integrated Financing
 - Our financing partner is integrated into the proposal so customers can complete that process from the proposal in the comfort and privacy of their own homes.

HubSpot

SES has, for the last five years, managed its sales process through CRM software. Starting in 2024, SES upgraded that software to HubSpot, which allows us to better track where customers are and integrate other software like Arrivy, Quickbooks, Etc. HubSpot has more filtering features, which also allow salespeople to better understand where their contacts are in the sales process. In this transition we have incorporated the work flow that was developed over the last 4-5 years with Job Nimbus.

Arrivy

The Arrivy Operations Cloud for service is being onboarded now. It will equip SES with the tools to streamline operations, enhance collaboration, and exceed customer expectations. Arrivy streamlines ordinary day-of experiences and ensures a seamless transition from warehouse to field service.

STANDARD TOOLS AND SOFTWARE

ATTACHMENT G

Arrivy (cont.)

Elevated Customer Experience with Arrivy

Arrivy will ensure end-to-end transparency and bridge the gap between our crews and customers. From pre-appointment reminders and real-time ETA's to live location reporting, Arrivy will keep customers informed on the day of service.

Arrivy will also allow us to simplify on-site paperwork for site visits, installations, and service.

Helioscope & Energy Tool Base

For commercial designs and large systems, SES uses Helioscope. Helioscope is the gold standard in solar design software for larger systems. HelioScope simplifies the process of engineering by integrating easy layout tools with performance modeling. HelioScope offers CAD-caliber layouts that can be integrated with Energy Tool Base for financial calculations

Solmetric Suneye

SES uses the Solmetric Suneye when other shade assessment tools, like OpenSolar's lidar data, aren't available on project sites. The Suneye is the industry's gold standard for on-site shade assessment. The device produces an exportable report/file that can easily be integrated into many standard site evaluation tools. SES site evaluators are trained to use the Suneye.

STANDARD LOAN AGREEMENT **ATTACHMENT H**

Standard loan agreement attached to the following pages.



Clean Energy Federal Credit Union
 PO Box 4233
 Englewood, CO 80155
 (720) 479-7900
 Fax: (720) 479-7903
 www.cleanenergycu.org

CLOSED-END NOTE, DISCLOSURE,
 LOAN AND SECURITY AGREEMENT

BORROWER'S NAME AND ADDRESS		DATE OF LOAN	LOAN MATURITY DATE	LOAN OFFICER
CO-BORROWER'S NAME AND ADDRESS		LOAN NUMBER		BORROWER'S MEMBER NUMBER
		BORROWER'S DATE OF BIRTH		CO-BORROWER'S DATE OF BIRTH

ANNUAL PERCENTAGE RATE: The cost of your credit as a yearly rate. %*	FINANCE CHARGE: The dollar amount the credit will cost you. \$	Amount Financed: The amount of credit provided to you or on your behalf. \$	Total of Payments: The amount you will have paid after you have made all payments as scheduled. \$	Total Sale Price: Total cost of your purchase on credit, including your down payment of \$ _____ \$
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*Variable Rate Certificate Secured: If checked, this is a variable rate certificate-secured loan and the Annual Percentage Rate (APR) disclosed above may increase or decrease during the term of this transaction if the Credit Union's Share Certificate dividend rate increases or decreases. The ANNUAL PERCENTAGE RATE will be equal to the Share Certificate dividend rate (index) plus a margin of 2.25%. The Certificate must automatically renew until what you owe has been paid in full. The APR will increase or decrease on the day the certificate is renewed to reflect the new interest rate in effect at the time of renewal. The ANNUAL PERCENTAGE RATE will never be more than 18.00% or less than 2.25%. Any increase will take the form of more payments of the same amount. EXAMPLE: If your loan was \$10,000 at 6.00% for 120 months and the rate increased to 7.00% after 3 years, you would have to make 4 additional payments.

*Variable Rate Share Secured: If checked, this is a Share-Secured loan and the Annual Percentage Rate (APR) may increase or decrease during its term if the Credit Union's Share Account rate increases or decreases. The ANNUAL PERCENTAGE RATE will be equal to the share rate plus a margin of 2.25%. An increase or decrease will take effect on the first day of January, April, July, and October following a change in the secured Share Account's rate. The ANNUAL PERCENTAGE RATE will never be more than 18.00% or less than 2.25%. Any increase will take the form of more payments of the same amount. EXAMPLE: If your loan was \$10,000 at 6.00% for 120 months and the rate increased to 7.00% after 3 years, you would have to make 4 additional payments.

*Automatic Payment Discounted Rate: If checked, the ANNUAL PERCENTAGE RATE noted above reflects a discount of 2.00% because you have agreed to make your minimum monthly payments via automatic payment through payroll deduction or from a credit union checking or savings account. Your ANNUAL PERCENTAGE RATE will increase by 2.00% if you discontinue automatic payment, you close your account, or you have insufficient funds to cover the automatic payment. Any increase will take the form of higher payments. EXAMPLE: If your loan was \$10,000 at 6.00% for 120 months and the rate increased to 8.00% after 3 years, your monthly payment would increase by \$7.43.

Promotional Rate; Deferred Interest: If checked, the Finance Charge and ANNUAL PERCENTAGE RATE noted above includes \$ _____ of deferred interest, which will be waived if you pay off your entire loan balance within _____ months from the date of your loan. This means the promotional rate will be _____% if you pay off your loan balance within that time period. If you do not pay the balance in full within _____ months, your actual ANNUAL PERCENTAGE RATE may vary, depending upon any payments you have previously made, but will not exceed the ANNUAL PERCENTAGE RATE disclosed above.

1	\$	BEGIN
	\$	
	\$	

Security: You are giving a security interest in your shares and deposits in the credit union, as well as the collateral described below. Collateral for other loans with us will also secure this loan, except for your home and household goods.

Late Charges: If your payment is more than 10 days late, you will be charged a late fee of \$20.00. Required Deposit Balance: The Annual Percentage Rate does not take into account your required deposit balance.

Property Insurance: You may obtain property insurance from anyone you want that is acceptable to the credit union. If you do not obtain property insurance we will obtain it at your cost. Filing Fees: \$

Prepayment: If you pay off early, you will not have to pay a penalty. See your contract documents for any additional information about nonpayment, default, any required repayment in full before the scheduled date, and prepayment refunds and penalties.

"e" means estimate.

ITEMIZATION OF AMOUNT FINANCED

ITEMIZATION OF AMOUNT FINANCED OF	AMOUNT GIVEN TO YOU DIRECTLY	AMOUNT PAID ON YOUR ACCOUNT	PREPAID FINANCE CHARGE
\$	\$	\$	\$
Amount Paid to Others on Your Behalf (Describe)			
\$	To GAP To: (a portion will be retained by us)	\$	To
\$	To MBP To: (a portion will be retained by us)	\$	To
\$	To	\$	To

SECURITY INFORMATION

SHARES PLEDGED:	ACCOUNT NUMBER	AMOUNT \$	ACCOUNT NUMBER	AMOUNT \$
MOTOR VEHICLE:	YEAR	MAKE	MODEL	BODY TYPE
OTHER COLLATERAL:	SERIAL NUMBER or VIN			

THIS DOCUMENT OR A COPY OF THIS DOCUMENT MAY BE FILED AS A FINANCING STATEMENT.

BORROWER'S NAME	LOAN NUMBER	MEMBER NUMBER	DATE OF LOAN
-----------------	-------------	---------------	--------------

LOAN SIGNATURES

You agree that the terms and conditions in the disclosure statement and the loan and security agreements attached hereto shall apply to this loan. If there is more than one borrower, you agree that all the conditions of the loan and security agreements governing this loan shall apply to both jointly and severally. You acknowledge that you have received a copy of the loan and security agreements and disclosure statement ("Note"). If you purchase optional loan products in connection with this loan, you understand that a portion of the premium or fee you pay will be retained by the credit union (or paid back to the credit union by the service provider) as compensation for making these services available to you. You also acknowledge receipt of the product application(s), disclosures, and contract(s) regarding the product(s).

Suspension of electronic services and access to share or deposit accounts. Subject to applicable law, we may suspend some or all electronic services and access to your checking or other account(s) if you become delinquent on any of your loan or deposit obligations to us or you cause a loss to us. We shall not be liable to you in any regard in connection with such suspension of services.

Negative Information Notice: We may report information about your account to credit bureaus. Late payments, missed payments, or other defaults on your account may be reflected in your credit report.

NOTICE TO CONSUMER: THIS IS A CONSUMER CREDIT TRANSACTION. (A) DO NOT SIGN ANYTHING BEFORE YOU READ IT OR IF IT CONTAINS ANY BLANK SPACES. (B) YOU ARE ENTITLED TO AN EXACT COPY OF ANY AGREEMENT YOU SIGN. (C) YOU HAVE THE RIGHT AT ANY TIME TO PAY IN ADVANCE THE UNPAID BALANCE DUE UNDER THIS AGREEMENT.

THIS WRITTEN AGREEMENT REPRESENTS THE FINAL AGREEMENT BETWEEN THE PARTIES AND MAY NOT BE CONTRADICTED BY EVIDENCE OF PRIOR, CONTEMPORANEOUS, OR SUBSEQUENT ORAL AGREEMENTS OF THE PARTIES. THERE ARE NO UNWRITTEN ORAL AGREEMENTS BETWEEN THE PARTIES.

CAUTION- IT IS IMPORTANT THAT YOU THOROUGHLY READ THE CONTRACT BEFORE YOU SIGN IT.

BORROWER'S SIGNATURE	DATE
X	
<input type="checkbox"/> CO-BORROWER <input type="checkbox"/> *OTHER OWNER <input type="checkbox"/> ** GUARANTOR	DATE
X	

<input type="checkbox"/> CO-BORROWER <input type="checkbox"/> *OTHER OWNER <input type="checkbox"/> ** GUARANTOR	DATE
X	
<input type="checkbox"/> CO-BORROWER <input type="checkbox"/> *OTHER OWNER <input type="checkbox"/> ** GUARANTOR	DATE
X	

*OTHER OWNER: Any person who has a property interest (other than as a renter or lessor) in the above described collateral signs here. The other owner, unless also a co-borrower, is not obligated to pay the debt, but understands that the credit union has a security interest in the collateral as explained in the Security Agreement.

**GUARANTOR: Upon default, the credit union may seek immediate payment from the guarantor of any and all sums due on the loan, including all reasonable costs and fees provided under the loan and security agreements, as permitted by law. The guarantor waives all notice to which he or she would otherwise be entitled by law.

CONSUMER'S CLAIMS AND DEFENSES NOTICE - IF CHECKED, SEE NOTICE BELOW

NOTICE: ANY HOLDER OF THIS CONSUMER CREDIT CONTRACT IS SUBJECT TO ALL CLAIMS AND DEFENSES WHICH THE DEBTOR COULD ASSERT AGAINST THE SELLER OF GOODS OR SERVICES OBTAINED PURSUANT HERETO OR WITH THE PROCEEDS HEREOF. RECOVERY HEREUNDER BY THE DEBTOR SHALL NOT EXCEED AMOUNTS PAID BY THE DEBTOR HEREUNDER.

AUTOMATIC PAYMENT AUTHORIZATION

By signing below, I authorize Clean Energy Federal Credit Union to initiate recurring Automatic Payments from the account named below. I acknowledge that the origination of ACH transactions must comply with all provisions of the U.S. Law and the rules of National Automated Clearinghouse Association ("NACHA"). Available funds are required in the account prior to origination to allow reasonable time for processing on the requested date.

Account Holder Name: _____ Depository Institution Name: _____

Account Type: Checking Savings Routing #: _____ Account #: _____

Requested Debit Date: _____ Amount to Debit: \$ _____ Frequency: _____

This ACH authorization is to remain in full force and will continue until Clean Energy Federal Credit Union has received from me written notification of any changes or to terminate in such time and in such manner as to afford Clean Energy Federal Credit Union and Financial Insitution a reasonable opportunity to act on it. See Clean Energy Federal Credit Union Membership Agreement for ACH terms and transfer agreement details. I understand that if the funds are not available in my account on the designated debit date, I may be charged a NSF fee. See Rate and Fee Schedule for fee and details. I understand that if the funds are not available to allow this debit transaction to be completed, I am still responsible for making the loan payment. The Credit Union reserves the right to cancel this agreement at any time.

ACCOUNT HOLDER SIGNATURE
X

ACCOUNT HOLDER SIGNATURE
X

BORROWER'S NAME	LOAN NUMBER	MEMBER NUMBER	DATE OF LOAN
-----------------	-------------	---------------	--------------

APPLICATION, DISCLOSURES, AND PROGRAM AGREEMENT for CONSUMERSAFE PLUS DEBT PROTECTION PLAN

This Product is Optional. Your purchase of the ConsumerSafe Debt Protection Plan ("Plan") is optional. Whether or not you purchase this protection will not affect your application for credit or the terms of any existing credit agreement you have with Clean Energy Federal Credit Union ("us" or "we").

Termination of the Plan: You may terminate the Plan at any time. If you terminate within 30 days, we will refund any fees paid. We have the right to terminate the Plan by giving you written notice at least 30 days in advance of the termination. See the "Termination of the Plan and Change in Terms" section for other ways the Plan may terminate.

Benefits May Be Denied. Even if you are eligible to purchase this Plan, there are eligibility requirements, conditions, and exclusions that could prevent you from receiving cancellations under the Program. This agreement will provide you with a complete explanation of all eligibility requirements, conditions, and exclusions for the Plan. Example: If you received medical treatment within the 6 months before enrolling, and you become disabled for that condition within the 6 months after enrolling, you will not qualify for Disability cancellations (this is called a "pre-existing condition").

Loans eligible for protection if the Plan is made available to you on that loan type are closed-end consumer loans; consumer lines of credit; credit cards; closed-end home equity loans (i.e. second mortgages); and home equity lines of credit.

I ELECT: (Check only one box)	Cost:	
	Lines of Credit: monthly cost per \$1,000 of outstanding loan balance	Closed-End Loans: estimated total fee*
PLAN 1: Plan #682603 Death: Cancels loan balance up to \$75,000 Disability: Cancels up to \$1,000 per month for up to 6 payments Involuntary Unemployment: Cancels up to \$1,000 per month for up to 3 payments	<input type="checkbox"/> Borrower (single): \$2.69 <input type="checkbox"/> Both Borrowers (joint): \$4.86	<input type="checkbox"/> Borrower (single): \$ _____ <input type="checkbox"/> Both Borrowers (joint): \$ _____
PLAN 2: Plan #682604 Death: Cancels loan balance up to \$75,000 Disability: Cancels up to \$1,000 per month for up to 6 payments	<input type="checkbox"/> Borrower (single): \$1.57 <input type="checkbox"/> Both Borrowers (joint): \$2.76	<input type="checkbox"/> Borrower (single): \$ _____ <input type="checkbox"/> Both Borrowers (joint): \$ _____
PLAN 3: Plan #682605 Death: Cancels loan balance up to \$75,000	<input type="checkbox"/> Borrower (single): \$0.71 <input type="checkbox"/> Both Borrowers (joint): \$1.13	<input type="checkbox"/> Borrower (single): \$ _____ <input type="checkbox"/> Both Borrowers (joint): \$ _____
Cancellation Maximums		
Monthly cancellations listed are per occurrence for each protected borrower. Monthly cancellations are limited to a maximum of \$15,000 over the term of the loan, per each Protected Event and per each protected Borrower. *The Total Fee for a closed-end advance under your consumer lending plan will be disclosed to you at the time of your closed-end advance.		
<input type="checkbox"/> No, I do not wish to apply for the voluntary Plan at this time. _____ (Borrower initials) _____ (Co-Borrower initials)		

APPLICATION ELIGIBILITY

Eligible borrowers may apply for coverage any time up to 180 days after the date of (a) your closed-end loan or (b) an advance under a line of credit.

To be eligible to apply, I must meet the following conditions. By signing this Application, I am stating that:

1. I am under age 70;
2. If applying for Death or Disability protection: During the last 2 years, I have not been advised of or treated for: cancer, heart attack or coronary artery disease, stroke, cirrhosis, AIDS, or had a positive HIV test;
3. If applying for Disability or Involuntary Unemployment protection: I am presently working 24 or more hours per week;
4. If applying for Involuntary Unemployment protection: I am not self-employed.

Seasonal Workers: whether you qualify for Involuntary Unemployment Benefits at the end of your seasonal employment will depend on whether you qualify for your state's unemployment benefits.

90-Day Waiting Period for Involuntary Unemployment: Involuntary unemployment that occurs within the first 90 days after your Effective Date will not be covered.
 _____ (Borrower initials) _____ (Co-Borrower initials)

Email Communication: By signing this application, you acknowledge and agree that our administrator can (1) send you claims forms or other administrative forms to the email address that you provide to us and (2) otherwise communicate to you via email in order to administer your coverage if you activate your protection. Our administrator does not sell your information and will not use your email address for any purpose other than as outlined herein.

BORROWER'S SIGNATURES

Yes, I want to purchase the Plan. I have received a copy of this Application, Disclosures, and Program Agreement ("agreement"). I agree to follow the terms of this agreement. I authorize the Plan fees to be added to my loan payment each month. This document is a part of my loan or credit agreement.

Only one Borrower and one Co-Borrower may apply for the Plan. Co-signers, guarantors, and non-borrower owners of collateral are not eligible to apply. If I purchase the Plan for a consumer lending plan or line of credit, my election will cover all advances under the consumer lending plan or line of credit, unless I instruct otherwise. Each borrower applying for protection must sign (both borrowers must sign if applying for joint protection).

BORROWER SIGNATURE	DATE	CO-BORROWER SIGNATURE	DATE
X		X	

BORROWER'S NAME	LOAN NUMBER	MEMBER NUMBER	DATE OF LOAN
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IMPORTANT DISCLOSURES FOR ACTIVE MEMBERS OF THE MILITARY AND THEIR DEPENDENTS:

The following applies if at the time this loan is made you are an active member of the military or a dependent (as those terms are defined in the Military Lending Act (MLA), 10 U.S.C. 987 and its implementing regulations ("MLA")), and (a) your loan is unsecured or secured by personal property or a vehicle that you did not purchase with the proceeds of the loan; or (b) it is otherwise determined by law that the MLA applies to your loan. If this loan is a revolving line of credit or credit card, the MLA ceases to apply at any time during which you are not a member of the military or a dependent (as defined in the MLA).

1. NOTICE: Federal law provides important protections to members of the Armed Forces and their dependents relating to extensions of consumer credit. In general, the cost of consumer credit to a member of the Armed Forces and his or her dependent may not exceed an annual percentage rate of 36 percent. This rate must include, as applicable to the credit transaction or account: the costs associated with credit insurance premiums or debt protection fees; fees for ancillary products sold in connection with the credit transaction; any application fee charged (other than certain application fees for specified credit transactions or accounts); and any participation fee charged (other than certain participation fees for a credit card account). To receive this notice verbally, please call 1-855-218-5439 during our normal business hours.

2. This loan will not be secured by a consensual lien on shares or deposits in any of your accounts unless you agree to establish an account in connection with this loan ("Secured Account"). Only funds deposited into the Secured Account after the loan is made will secure this loan. Any cross-collateralization provision contained in your loan or account documents will not apply to the Secured Account or your other share or deposit accounts for any loan subject to the Military Lending Act.

However, we reserve our statutory lien rights and rights to set-off or administrative freeze under federal or state law, which gives us the right to apply the sums in the Secured Account or any other account(s) you have with us to satisfy your obligations under this loan.

3. Any reference in this consumer credit contract to the following are hereby inapplicable to your loan: (a) Mandatory arbitration; (b) Any requirement(s) to waive your rights to legal recourse under any applicable state or federal law; (c) Any demands or requirements construed as unreasonable notice from you in order to exercise your legal rights; or (d) Prepayment penalties.

4. Any provisions in your consumer credit contract, loan, security, or account agreements that are determined to be inconsistent with or contradictory to these disclosures or the MLA (as they may be changed or amended from time to time) are inapplicable with regard to this loan. However, all other terms and conditions of the consumer credit contract shall remain in full force and effect.

IN THESE AGREEMENTS, THE WORDS "YOU," "YOUR" AND "YOURS" MEAN ALL THOSE NAMED AS BORROWERS. THE WORDS "WE," "US" AND "OUR" MEAN THE CREDIT UNION.
LOAN AGREEMENT

Payments/Finance Charges:

office, all amounts due. All payments shall be made by you and to the office or our statement on page 1 of this document. You understand that the finance charge and total of payments shown on page 1 of this document are based on the assumption that all installment payments will be made on the scheduled due dates. If you fail to pay any installment by the time it is due, you will pay additional interest on the overdue amount and your loan may not be paid in full at the end of the term. In such case, any remaining balance will be due in full immediately.

Allocation of Payments and Additional Payments: Payments and credits shall be applied in the following order: any amounts past due; any fees or charges owing, including any fees or premiums for additional products purchased; accrued interest or finance charges; outstanding principal. Payments made in addition to regularly scheduled payments shall be applied in the same order.

Late Charges: If you make a late payment, you agree to pay a late charge if one is disclosed on page 1 of this document.

Borrower Responsibility: You promise to notify us of any change in your name, address or employment. You promise not to apply for a loan if you know there is a reasonable probability that you will be unable to repay your obligation according to the terms of the credit extension. You promise to inform us of any new information which relates to your ability to repay your obligation. You promise not to submit false or inaccurate information or willfully conceal information regarding your creditworthiness, credit standing, or credit capacity.

Perfection of Security Interest; Increase in Rate; Fee; Default: If you fail to perfect our lien, we may take the necessary steps to do so and charge you a filing fee. This fee will be in the amount charged by the state and will be added to your loan balance. If we are unable to perfect our lien on the collateral pledged for any loan, or the value of the collateral deteriorates significantly, that loan may be treated as a signature loan under a line of credit for the purpose of determining the Interest Rate, and the Interest Rate shall increase to the highest signature loan rate in effect at that time. Your minimum monthly payment shall also increase accordingly. We may also consider the loan to be in default and can call the loan immediately due and payable, in which case you must pay the entire amount due in one lump sum. The loan while in default will bear interest at the highest rate allowed by law.

Default: The following provision applies to borrowers in Idaho, Kansas, and Maine: You will be in default if (1) you do not make a payment of the required amount when due; or (2) we believe the prospect of payment, performance, or realization on any property given as security is significantly impaired.

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The following provision applies to borrowers in Wisconsin: You shall be in default under this Agreement if any of the following occur: (a) If an amount exceeding one (1) full payment due under this Agreement is more than ten (10) days late or if the first or last payment due under this Agreement is more than forty (40) days late; OR (b) you breach any term or condition of this Agreement, which breach materially impairs your ability to pay amounts when due or materially impairs the condition, value, or protection of our rights to or in any collateral securing this transaction.

The following provision applies to all other borrowers: You shall be considered in default if any of the following occur: (1) If you break any promise made under this Loan Agreement or under the Security Agreement; or (2) if you do not use the money we loaned you for the purpose stated in your application; or (3) if we should, in good faith, believe that prospect of payment, performance or realization of the collateral, if any, is impaired; or (4) if you die; or (5) if you file a petition in bankruptcy, insolvency, or receivership or are put involuntarily into such proceedings; or (6) if the collateral, if any, given as security for this loan is lost, damaged or destroyed, or if it is levied against, attached, garnished, or seized for any reason under any authority; or (7) if you do not pay on time any of your current or future debts to us; or (8) if anyone is in default of any security agreement given in connection with any loan under this Note; or (9) if you make any false or misleading statements in any credit application or update of credit information; or (10) you are in default of any other loan or security agreement you have with the Credit Union; or (11) you use the Note for any illegal purpose or transaction as determined by applicable law. If you default, we may, at our option, declare this loan immediately due and payable, and you must immediately pay to us at that time the total unpaid balance, as well as the Finance Charge to date, any late charges and costs of collection permitted under law, including reasonable attorney's fees.

Costs of Collection: You shall pay all costs incurred by us in collecting any amount you owe or in enforcing or protecting our rights. Costs of collection include, but are not limited to, collection agency fees, repossession fees, appraisals, environmental site assessments, and casualty insurance. The following applies to all borrowers except Wisconsin borrowers: Costs of collection also include reasonable attorney's fees for any action taken by an attorney who is not our salaried employee in order to collect this loan or preserve or protect our rights and remedies, including, without limitation, pre-suit demands for payment, pre-suit mediation or settlement negotiations, investigation and assessment of our rights, participation in bankruptcy cases, matters, and proceedings (including, without limitation, filing proofs of claim, pursuing reaffirmation agreements, attending meetings of creditors, and pursuing complaints, motions, and objections that relate in any way to the credit union's collateral or right to payment), collateral disposition, non-

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bankruptcy suits and/or administrative actions, and appeals. For Alabama borrowers: attorney's fees after default shall not exceed 15% of the unpaid debt, or such higher amount as a court may allow. For Georgia borrowers: attorney's fees shall not exceed 15% of principal and accrued interest, or such higher amount as a court may allow.

Action Upon Default: The following provision applies to borrowers in Colorado, District of Columbia, Kansas, Maine, Massachusetts, Missouri, Nebraska, and West Virginia: Once you have defaulted, and after the expiration of any right you may have under applicable state law to cure your default, we can demand immediate payment of the entire unpaid balance of the loan without giving you advance notice. The principal balance in default shall bear interest at the contract rate, or a default rate if one has been disclosed to you, or another rate if required by applicable law.

The following provision applies to borrowers in Wisconsin:
Right to Cure Default: If you are in default under this Agreement, we must give a notice of default to you pursuant to Wisconsin Statutes sec. 425.104-425.105. You shall have fifteen (15) calendar days from the date the notice is mailed to you to cure the default. In the event of an uncured default, we shall have all the rights and remedies for default provided under the Wisconsin Consumer Act, Uniform Commercial Code, or other applicable law, including, but not limited to, the right to repossess the collateral. We may waive any default without waiving any other subsequent or prior default by you.

No Right to Cure: Pursuant to Wis. Stat. Sec. 425.105(3), you shall not have the right to cure a default if the following occur twice during the preceding twelve (12) months: (a) you were in default on the closed-end note; (b) we gave you notice of the right to cure such previous default in accordance with Wis. Stat. Sec. 425.104; and (c) you cured the previous default.

Nothing in this Agreement shall be construed to restrict our ability to exercise our rights under the Wisconsin Consumer Act, Uniform Commercial Code, or other applicable law, including, but not limited to, the right to repossess the collateral.

The following provision applies to borrowers in all other states: Once you have defaulted, we may, at our option, declare all amounts under the Note immediately due and payable, and you must immediately pay to us at that time the total unpaid balance, as well as the Finance Charge to date, any late charges and costs of collection permitted under law, including reasonable attorney's fees. The principal balance in default shall bear interest at the contract rate.

Delay In Enforcement: We may delay enforcing any of our rights under this agreement without losing them.

Irregular Payments: We may accept late payments or partial payments, even though marked "payment in full," without losing any of our rights under this agreement.

Co-borrowers: If you are signing this agreement as a co-borrower, you agree to be equally responsible with the borrower, but we may sue either or both of you. We do not have to notify you that this agreement has not been paid. We may extend the terms of payment and release any security without notifying or releasing you from responsibility on this agreement.

Governing Law: These agreements shall be construed and enforced in accordance with the laws of the State in which our headquarters are located. If you have entered into a mandatory arbitration agreement in connection with this loan: if any provisions within this Agreement pertaining to jurisdiction and venue are inconsistent with the arbitration agreement, the arbitration agreement will govern.

Change in Terms: The terms of this Closed-end Note, Disclosure, Loan & Security Agreement, including any fees disclosed, are subject to change without prior notice, subject to applicable law.

Contractual Pledge of Shares: You pledge all your shares and deposits in the credit union, including future additions, as security for this loan. In case you default, we may apply these shares and deposits to the payment of all sums due at the time of default, including costs of collection and reasonable attorney's fees. No lien or right to impress a lien on shares and deposits shall apply to any of your shares which may be held in an "Individual Retirement Account" or "Keogh Plan."

State Notices:

NOTICES TO WISCONSIN BORROWERS: No provision of a marital property agreement, a unilateral agreement under Wis. Stat. Section 766.59, or a court decree under Wis. Stat. 766.70 adversely affects the interest of the Credit Union unless prior to the time the credit is extended, the Credit Union is furnished with a copy of the agreement or statement, or has actual knowledge

of the adverse provision when the obligation to the Credit Union is incurred.

NORTH DAKOTA NOTICE TO BORROWERS PURCHASING A MOTOR VEHICLE - THE MOTOR VEHICLE IN THIS TRANSACTION MAY BE SUBJECT TO REPOSSESSION. IF IT IS REPOSSESSED AND SOLD TO SOMEONE ELSE, AND ALL AMOUNTS DUE TO THE SECURED PARTY ARE NOT RECEIVED IN THAT SALE, THE BORROWER MAY HAVE TO PAY THE DIFFERENCE.

NOTICE TO UTAH BORROWERS: This written agreement is a final expression of the agreement between you and the Credit Union. This written agreement may not be contradicted by evidence of any oral agreement.

NOTICE FOR ARIZONA OWNERS OF PROPERTY: It is unlawful for a borrower to fail to return a motor vehicle that is subject to a security interest within thirty days after you have received notice of default. The notice will be mailed to the address you provided on this document unless you have given the Credit Union a new address. It is your responsibility to notify the Credit Union if your address changes. The maximum penalty for unlawful failure to return a motor vehicle is one year in prison and/or a fine of \$150,000.

NOTICE TO CALIFORNIA RESIDENTS: By signing this Note, you specifically agree that the Credit Union may access the records of the California Department of Motor Vehicles from time to time to obtain your current mailing address. You are specifically waiving your rights under sections 1808.21 and 1808.22 of the California Vehicle Code.

NOTICE TO TEXAS BORROWERS - INSURANCE REQUIRED: You are required to: (i) keep the collateral insured against damage in the amount of the loan or another amount if we so specify; (ii) purchase this insurance from an insurer that is authorized to do business in the state of Texas or an eligible surplus lines insurer; and (iii) name us as the person to be paid under the policy in the event of a loss. You must also provide us a copy of the policy and proof of the payment of premiums if we so request. If you fail to meet any of these requirements, we may obtain collateral protection insurance on your behalf at your expense.

For Missouri Residents: Oral agreements or commitments to loan money, extend credit or to forbear from enforcing repayment of a debt including promises to extend or renew such debt are not enforceable. To protect you (borrower) and us (creditor) from misunderstanding or disappointment, any agreements we reach covering such matters are contained in this writing, which is the complete and exclusive statement of the agreement between us, except as we may later agree in writing to modify it.

For Vermont Residents: **NOTICE TO CO-BORROWER: YOUR SIGNATURE ON THIS LOAN MEANS THAT YOU ARE EQUALLY LIABLE FOR REPAYMENT OF THE LOAN. IF THE BORROWER DOES NOT PAY, THE LENDER HAS A LEGAL RIGHT TO COLLECT FROM YOU.**

OHIO RESIDENTS ONLY: The Ohio laws against discrimination require that all creditors make credit equally available to all creditworthy customers, and that credit reporting agencies maintain separate credit histories on each individual upon request. The Ohio Civil Rights Commission administers compliance with this law.

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WASHINGTON AND OREGON RESIDENTS ONLY:

WARNING: UNLESS YOU PROVIDE US WITH EVIDENCE OF THE INSURANCE COVERAGE AS REQUIRED BY OUR LOAN AGREEMENT, WE MAY PURCHASE INSURANCE AT YOUR EXPENSE TO PROTECT OUR INTEREST. THIS INSURANCE MAY, BUT NEED NOT, ALSO PROTECT YOUR INTEREST. IF THE COLLATERAL BECOMES DAMAGED, THE COVERAGE WE PURCHASE MAY NOT PAY ANY CLAIM YOU MAKE OR ANY CLAIM MADE AGAINST YOU. YOU MAY LATER CANCEL THIS COVERAGE BY PROVIDING EVIDENCE THAT YOU HAVE OBTAINED PROPER COVERAGE ELSEWHERE. YOU ARE RESPONSIBLE FOR THE COST OF ANY INSURANCE PURCHASED BY US. THE COST OF THIS INSURANCE MAY BE ADDED TO YOUR LOAN BALANCE. IF THE COST IS ADDED TO THE LOAN BALANCE, THE INTEREST RATE ON THE UNDERLYING LOAN WILL APPLY TO THIS ADDED AMOUNT. THE EFFECTIVE DATE OF COVERAGE MAY BE THE DATE YOUR PRIOR COVERAGE LAPSED OR THE DATE YOU FAILED TO PROVIDE PROOF OF COVERAGE. BE CONSIDERABLY MORE EXPENSIVE THAN WE CAN OBTAIN ON YOUR OWN AND MAY NOT SATISFY WASHINGTON'S OR OREGON'S MANDATORY LIABILITY INSURANCE LAWS.

this Agreement. (e) You specifically agree that we have a right to place an administrative freeze on any of your joint or individual account(s) and that such action shall not violate 11 USC 362 or other applicable law.

Multiple Rights; Cumulative Remedies: You understand and agree that the Credit Union has multiple rights as enumerated above and that the remedies are cumulative. Nothing herein shall limit or restrict the remedies available to us following any event of default under the terms of your loan documents.

Cross-collateralization: Property given as security for this loan or for any other loan Borrower has with the credit union will secure all amounts Borrower owes the credit union now and in the future. However, property securing another debt will not secure this loan if such property is Borrower's principal residence (unless the proper rescission notices are given and any other legal requirements are satisfied), or are non-purchase money household goods.

Release of Lien: We will release any lien on any collateral under this Note if you are delinquent on, or in default on, any other loan you have with us. For example, if you are in default on a line of credit, we will not release our lien on a vehicle loan, even if the vehicle loan is current or paid in full.

Transfer of Collateral: You will not change the location of, sell or transfer the collateral unless you have our prior written consent.

Good Title: You warrant that you have good title to the collateral, free of all security interests except that given to the credit union and except for any interest of a non-co-maker owner of the collateral who has signed the agreement in the indicated place.

Maintenance of Collateral: You will pay all taxes, assessments, and liens against or attached to the property described and further agree to keep the property in good condition, housed in a suitable shelter. You agree to execute financing statements and security agreement amendments at our request and will defend the property against adverse third party claims.

Additional Security: Should we feel at any time that the security presented has diminished in value, or for any reason feel that additional security is required, you agree to assign to us within ten (10) days whatever additional security we feel is necessary to protect us against possible loss.

Actions Upon Default: If a default as defined in the Loan Agreement should occur, we, or a third party designated by us, have the authority, upon such default, to repossess and sell the collateral in a lawful manner. This includes authority to take possession of any personal property contained in the collateral. In such cases, we or our authorized representatives may, at our option, enter the premises where the collateral is kept and take possession, subject to applicable laws. We have the right to render the property pledged as collateral unusable and may dispose of the collateral on the premises where the collateral is kept. If we decide to sell the collateral at a public sale, private sale or otherwise dispose of the collateral, we will provide reasonable notice if required by law and will otherwise comply with applicable state law. If we sell or otherwise dispose of the collateral we may collect from you reasonable expenses incurred in the retaking, holding and preparing the collateral for and arranging the sale of the collateral. We may also collect reasonable attorney's fees and legal expenses, permitted by applicable law, incurred in connection with disposition of the property. Unless you default, you may keep possession of the property (collateral) described and use it in any lawful manner consistent with this agreement or with the insurance policy on the collateral. You understand that we have certain rights and legal remedies available to us under the Uniform Commercial Code and other applicable laws, and that we may use these rights to enforce payment if you default. In the event of default, you will at our request assemble the property (collateral) and make it available to us at a place of our choosing. If we decide to waive this default, it will not constitute waiver of any other subsequent defaults.

Applies to Solar Loans Only: Subject to applicable law, upon default, you hereby give us the right, with proper notice, to remotely disable the functioning of the Solar System or to terminate your use of the Solar System by entering your property and shutting down the Solar System so that your electricity will only be available from any existing local utility connection.

SECURITY AGREEMENT

Security Interest; PLEDGE OF SHARES: Statutory Lien: Set-off; Administrative Freeze: To secure the payment of this loan and all

expenditures incurred by the credit union in connection with this loan: (a) You grant the Credit Union a security interest in the property described on Page 1 of this document ("Collateral"). The security interest includes all

increases, substitutions and additions to the secured property, proceeds from any insurance on the secured property and all earnings received from the secured property. The security interest also includes all accessions. Accessions are things which are attached to or installed in the property now or in the future. The security interest also includes any replacements for the property which you buy within 10 days of the loan or any extensions, renewals or refinancing of the loan. If the value of the property declines, you promise to give us more security if asked to do so. You also agree to abide by the terms of the Security Agreement. (b) YOU GRANT AND PLEDGE TO US A

CONSENSUAL LIEN ON ALL SUMS ON DEPOSIT TO secure your obligations to the credit union pursuant to applicable state law. "All sums on deposit" and "shares" for purposes of this pledge means all deposits in any share savings, share draft, club, certificate, P.O.D., revocable trust or custodial accounts(s), whether jointly or individually held, that we have on deposit now or in the future, all of which are deemed "general deposits" for the purpose of this pledge. Your pledge does not include any IRA, Keogh, tax escrow, irrevocable trust or fiduciary account in which you do not have vested ownership interest. (c) You acknowledge and agree to impressment of the Credit Union's statutory lien rights under the Federal Credit Union Act and/or applicable state law as of the date of your loan, which gives us the right to apply the sums in your account(s), to satisfy any obligations you owe to the credit union, regardless of contributions at the time of default, and without further notice to you or any owner of the account(s). (d) You acknowledge and agree to our "common law" right to set off under applicable state law which authorizes us to apply the funds in any joint or individual account to any obligations owed to us if you default or fail to pay or satisfy any obligation to us without any legal process, court proceeding or any notice to any owner of the account(s) affected hereunder or otherwise under

BORROWER'S NAME	LOAN NUMBER	MEMBER NUMBER	DATE OF LOAN
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Attorney-in-Fact: We are hereby appointed as your Attorney-in-Fact to perform any acts which we feel are necessary to protect the collateral and the security interest which this agreement creates.

Joint Borrowers: If there is more than one borrower, your obligations under this agreement are joint and several, each being equally responsible to fulfill the terms of this agreement.

Others Bound: This security agreement not only binds you, but your executors, administrators, heirs, and assigns.

Further Assurances: You agree to execute any further documents, and to take any further actions, reasonably requested by Credit Union in order to evidence or perfect the security interests granted herein or to effectuate the rights granted to Credit Union.

Governing Law: This Security Agreement is being executed and delivered in, and is intended to be performed in, the State in which our headquarters are located and shall be construed and enforced in accordance with the laws of the State in which our headquarters are located, except to the extent that the Uniform Commercial Code provides for the application of the law of another state.

Additional Advances: Any additional advances made by us for the payment of taxes or assessments or liens of any kind, or premiums on insurance and the interest owing thereon or any other advance necessary to perfect or protect our security interest shall also be secured by this agreement. Such amounts shall be added to your loan balance and your minimum payment due shall be increased or your loan term extended accordingly.

Applies to Louisiana residents only:

Louisiana law permits repossession of motor vehicles upon default without further notice or judicial process.

If the secured collateral is a motor vehicle and you are in default, we may seize and sell the motor vehicle without demand for payment or advance notice to you. Collateral other than motor vehicles may be repossessed without judicial process only as allowed by applicable Louisiana law.

For purposes of foreclosure under Louisiana executory process, you hereby confess judgment in our favor for all amounts secured by the Note, including, but not limited to, principal, interest, late charges, costs of collection, costs of preservation of the collateral, reasonable attorney's fees, and all other amounts under the Note. We may appoint a keeper of the property in the event of foreclosure. To the extent allowed under Louisiana law, you hereby waive the following rights and procedures under Louisiana law: (a) all rights and benefit of appraisal; (b) notice of seizure; (c) the 3-day delay afforded under Articles 2331 and 2722; and (d) all other provisions under Articles 2331, 2722 and 2723 and all other Articles not specifically mentioned herein. You further agree that any declaration of fact made by authentic act by a person declaring that such facts are within his or her knowledge shall constitute authentic evidence of facts for the purposes of foreclosure under applicable Louisiana law and for the purposes of LSA-R.S. 9:3504(D)(6) and LSA-R.S. 10:9-508, to the extent applicable.

PROPERTY INSURANCE; LENDER-PLACED INSURANCE - PLEASE READ CAREFULLY

(a) Your requirement to maintain property insurance. You are required to carry insurance to protect your interest and our interest in the collateral securing this loan. The insurance:

- Must protect against any loss by fire or theft, and collision and comprehensive coverage on motor vehicles and other property pledged as security on this Loan.
- Must (i) be in an amount and type sufficient to repair the collateral to its existing condition prior to the loss, and/or to replace the collateral with comparable or like property, minus depreciation, if it is damaged or lost; or (ii) be in an amount and type as we might otherwise inform you that we require.
- Must have a maximum deductible as set forth by us.
- Must be maintained in force for as long as the loan is outstanding.
- Must name us as loss payee. We must receive the loss payee endorsement within 30 days of your loan date.

These requirements are solely in our discretion and we may change any of these requirements at any time for any reason. The insurance may be obtained by any insurer of your choice that is acceptable to us.

(b) Lender-placed property insurance. Please read carefully:

- If you fail to maintain insurance satisfying the requirements set forth above, or if you fail to provide us proof of such coverage, we may, but do not have to, obtain insurance to protect our interest (not yours) in the property.
- The total cost of lender-placed insurance will be added to the loan balance. The cost of this insurance includes, but is not limited to, the premium, any administrative costs we incur, any commissions that may be earned, and other reasonable expenses related to your failure to maintain insurance. This cost will be paid by you either on demand, or by increasing your periodic payment, or by extending the loan term.
- Whether we obtain insurance, and the amount and types of coverage that we may obtain, is solely in our discretion. We may obtain this insurance from anyone we want, including an affiliate of ours, and such affiliate may earn a commission on the coverage.
- The insurance placed by us is without benefit to you personally, and is primarily for our protection. It may not adequately protect your interest in the collateral or any personal property contained in the collateral, and will not satisfy any mandatory liability or financial responsibility requirements under state law.
- Coverage obtained by us may be considerably more expensive than coverage you could obtain on your own and may be different than previous policies you may have had or policies that you may prefer.
- Any insurance placed by us will be effective as of the date your policy lapsed or, if you never obtained insurance, the date of the loan.
- Nothing in this agreement is intended to confer third-party beneficiary rights or status to you with respect to any agreements between us and our insurer or its agent.

(c) How to remove lender-placed property insurance. You may have the lender-placed coverage cancelled at any time by providing evidence to us that you have purchased insurance coverage satisfying the requirements to self-maintain. We will refund of any unearned premiums and finance charges on the lender-placed coverages and your loan balance will be adjusted accordingly.

(d) Other. You assign us the right to receive and endorse any insurance proceeds check, to apply those proceeds to the sums you owe, and you direct any insurer to pay those proceeds directly to us. You further authorize us or our representative to obtain the necessary information for verification of adequate coverage. We, or our affiliates, may receive compensation or reimbursement of expenses related to any insurance premiums added by us.

(e) Default. If you fail to maintain insurance as set forth above, you will be in default of your loan. We may either place our own insurance on the collateral as explained above, or we can declare you in default and take all remedies set forth in your loan or security agreement or available to us under applicable law, including calling the loan immediately due.

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DEBT PROTECTION PROGRAM AGREEMENT

BENEFIT CHART - REQUIREMENTS, CONDITIONS, AND EXCLUSIONS

The following describes the types of Protected Events, the amounts cancelled, and the exclusions and conditions that apply:

Protected Event	To qualify for cancellations:	Number of cancellations and amount*:	You will not receive cancellations if:
Death	If you die during the term of this agreement, you will be eligible for cancellation.	We will cancel the outstanding balance, up to \$75,000. Only one cancellation will be made, even if you have joint protection. If you have joint protection and both borrowers die at the same time, no more than \$75,000 will be cancelled.	1. Your death is due to: a. suicide committed within the first 2 years of protection; b. an intentionally self-inflicted injury; c. a Pre-existing Condition (see Definition section); d. war or any act of war, whether declared or undeclared; or 2. Your death occurs on or after your 70th birthday; or 3. If, within the first 2 years after you apply, we find you were not eligible when you applied.
Disability	During the term of this Agreement, you must: 1. Be continuously unable, due to sickness or injury, to perform the substantial and material duties of your regular occupation; and 2. Be under the regular care and treatment of a licensed physician or licensed health care provider; and 3. Be disabled for at least 30 consecutive days.	1. We will cancel one payment if you are disabled for 30 days. Thereafter, we will cancel one payment for each Monthly Anniversary Date on which you are disabled, for up to 6 total payment cancellations. Your Monthly Anniversary Date is the numerical date of the month on which you become disabled. Example: Suppose you become disabled on April 4. If you are still disabled 30 days later on May 3, we will cancel one monthly payment. If you are still disabled on the Monthly Anniversary Date of May 4, we will cancel one additional monthly payment, and each monthly payment thereafter for each month you remain disabled on your Monthly Anniversary Date. a. you recover or return to work; b. the loan is paid off, refinanced with a different lender, or discharged. 3. Maximum monthly cancellation: \$1,000. 4. Maximum cancellation over the term of the loan: \$15,000 per borrower regardless of the number of occurrences.	1. Your disability is due to: a. an intentionally self-inflicted injury; b. a normal pregnancy, normal childbirth, or elective abortions. Complications due to pregnancy or childbirth will only be protected if the complications themselves are the cause of the disability; c. a Pre-existing Condition (see Definition section); d. war or any act of war, whether declared or undeclared; or 2. Your disability occurs on or after your 70th birthday; or 3. If, within the first 2 years after you apply, we find you were not eligible when you applied.
Involuntary Unemployment	During the term of this Agreement, you must: 1. Involuntarily lose your employment in which you were actively working for income for 24 hours or more per week; and 2. Be involuntarily unemployed for 30 consecutive days; and 3. Be receiving state or railroad unemployment benefits.* *If you are still unemployed after reaching your maximum state or railroad benefits, you must be registered with a state employment office or otherwise recognized employment agency to continue having payments cancelled. *If you reside in a state or territory without unemployment benefits, you must be registered with a recognized employment agency in order to continue having payments cancelled.	1. We will cancel one payment if you are involuntarily unemployed for 30 days. Thereafter, we will cancel one payment for each Monthly Anniversary Date on which you are unemployed, for up to 3 total payment cancellations. Your Monthly Anniversary Date is the numerical date of the month on which you become unemployed. Example: Suppose you become involuntarily unemployed on April 4. If you are still unemployed 30 days later on May 3, we will cancel one monthly payment. If you are still unemployed on the Monthly Anniversary Date of May 4, we will cancel one additional monthly payment, and each monthly payment thereafter for each month you remain unemployed on your Monthly Anniversary Date. 2. Cancellations will immediately stop if: a. Your unemployment benefits are discontinued for any reason other than reaching the maximum benefit allowed; b. you regain employment; or c. the loan is paid off, refinanced with a different lender, or discharged. 3. Maximum monthly cancellation: \$1,000. 4. Maximum cancellation over the term of the loan: \$15,000 per borrower regardless of the number of occurrences.	1. Your unemployment occurs on or after your 70th birthday; 2. Your unemployment occurs within the first 90 days after the Effective Date. 3. Your unemployment was voluntary (e.g., you retired, quit, or resigned); or 4. If, within the first 2 years after you apply, we find you were not eligible when you applied.

BORROWER'S NAME	LOAN NUMBER	MEMBER NUMBER	DATE OF LOAN
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***Additional Conditions:**

- Monthly cancellations listed above are per occurrence and per each protected borrower.
- If the Monthly Anniversary Date is the 29th, 30th, or 31st, the Monthly Anniversary Date will be the last day of the month in months in which there is no 29th, 30th, or 31st day.
- Cancellations will not be provided under one Protected Event if you or your co-borrower are currently receiving cancellations under another Protected Event.
- Additional Disability cancellations will not be provided if you suffer another disability while you are already receiving Disability cancellations.

OTHER IMPORTANT TERMS

FEES AND CANCELLATIONS

What amounts will be cancelled? For Death protection, we will cancel the outstanding balance as of the date of death, up to the maximum listed on the Benefit Chart. For any other Protected Event, we will cancel the minimum regularly scheduled monthly loan payment due as of the month in which your Protected Event occurs, up to the maximum listed on your Benefit Chart. The amounts cancelled will include principal, interest, the monthly Plan fee and any amounts originally financed as part of the loan. We will not cancel late fees or other fees, real estate taxes or property insurance premiums; or any past due amounts. If you have a balloon loan, the balloon payment will only be covered for a Protected Event that cancels the outstanding balance.

How is my Plan Fee calculated and collected? The Plan Fee is calculated by applying the rate per \$1,000 (or any fraction thereof) to your monthly outstanding balance and will be charged and collected monthly. The fee is added to your outstanding balance and becomes part of your monthly loan payment. If you purchase the Plan after your loan has closed, we may increase your minimum monthly payment or extend the term of your loan.

What are the tax implications? You may be subject to federal, state and local taxes on the amount of your cancelled loan payment or balance. You should consult your tax advisor. We do not provide you with guidance on the tax implications, if any, of a cancelled debt.

FILING A CLAIM

How do I file a claim? Contact us at (720) 479-7900. You must be able to verify the Protected Event to our satisfaction. If your delay in filing a claim prevents us from determining eligibility under the Plan, we will not make any cancellations.

In the event of a claim, we may ask you to sign a medical release and provide your past medical history.

Can you dispute my coverage? Yes. If within the first 2 years of this Plan, we find that you did not meet the eligibility requirements at the time of your application, your protection under the Plan will be removed, you will receive a refund of fees paid, and an otherwise valid claim will be denied. We can also deny a claim for the reasons listed in the Benefit Chart.

Do I have to make payments while my claim is being processed? Yes. While we are processing your claim, you must make your monthly payment on your loan or line of credit by the due date. Once cancellations begin, you are responsible for any amounts that are not cancelled.

What if my loan ends while I am receiving cancellations under the Plan? Cancellations will stop if the loan is paid off, refinanced with us or a different lender, sold, transferred, or discharged, even if you haven't received all of your cancellations.

What if I become disabled again or lose my job again? If you become disabled again with the same condition within 6 months of having recovered, or you become involuntarily unemployed again within 6 months of returning to full-time work, this will be a continuation of the first event. This means that if the maximum number of cancellations was already reached, we will not make any additional cancellations. But if you become disabled again with the same condition more than 6 months after your recovery, or you become involuntarily unemployed again more than 6 months after you return to full-time work, this will be a new event. It will also be a new event if you become disabled again with a different condition. This means you start a new set of cancellations, up to the maximums listed in your Benefit Chart.

What if I have an unrelated injury or sickness while I am disabled? If you are disabled ("original occurrence") and sustain another sickness or injury which would also be disabling, the second sickness or injury will not be considered a new occurrence of Disability. This means that you will receive cancellations for the second sickness or injury only if you did not reach your maximum per-occurrence cancellations for the original occurrence.

TERMINATION OF THE PLAN AND CHANGE IN TERMS

How can the Plan be terminated? (a) You may terminate this Plan at any time by writing us at Clean Energy Federal Credit Union, PO Box 4233, Englewood, CO 80155. If you do so within 30 days of the first time we bill you, we will credit your loan account for any fees charged. (b) We can terminate this Plan by giving you written notice at least 30 days in advance of the termination. Termination will be effective on the first of the month after you receive notice of termination. Fees for the month in which notice of termination is received will still be due and collected from the loan payment. (c) Your Plan will be terminated immediately and without notice: (1) If your loan is paid off, refinanced with us or another lender, sold, transferred, or discharged. (2) If your loan or line of credit payments are past due 90 days or more (if you bring your loan current after your Plan has been terminated for delinquency, you must reapply for the Plan). (3) You fail to pay the Plan fee. (4) When you reach age 70 or die. For joint protection, when the oldest borrower reaches age 70, the oldest borrower's protection terminates. Protection will automatically convert to Single Protection for the younger borrower (and the monthly fee will be adjusted accordingly). Once the younger borrower reaches age 70, all protection will terminate. If either borrower dies, any available cancellation for death will be made, subject to the terms of this agreement, and the protection for that borrower will terminate. or (5) When the protected balance is paid off under the Plan or all maximum cancellations are reached.

Can you change the fee and terms of this Plan? Yes. We can change the terms of this Plan, including the fee, at any time. If we do, we will give you prior notice and a chance to terminate the Plan without penalty.

BORROWER'S NAME	LOAN NUMBER	MEMBER NUMBER	DATE OF LOAN
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What if I refinance or modify my loan? If you refinance your loan with another lender, this Plan will terminate; if we are making cancellations when you refinance, cancellations will cease. If you refinance the loan with us so that you have a new loan with us, this Plan will terminate and you will need to complete a new debt protection application and requalify for protection if you wish to have debt protection on the new loan. However, if we are making cancellations at the time you refinance your loan with us, those cancellations will continue on the new loan in accordance with this agreement. If you modify the terms of your loan, coverage will continue.

What if my loan ends while I am receiving cancellations under the Plan? Cancellations will stop if the loan is paid off, refinanced with a different lender, sold, transferred, or discharged, even if you haven't received all of your cancellations.

DEFINITIONS

~~Actively working 24 or more hours per week on full-time employment~~
 Actively working means actually performing your job duties and not off of work due to leave of absence; layoff; routine or seasonal work interruption; or any other reason.

Effective Date: This means the date your Plan becomes effective, which is the later of: (1) the date you sign the Plan application; or (2) the date the loan funds are disbursed; or (3) the date of your first advance under a protected line of credit.

Pre-existing condition: This means a condition for which you received medical treatment or advice or had diagnostic tests for the same or related condition in the 6 month period prior to the Effective Date or an advance under a line of credit. This exclusion only applies if the Protected Event begins within the 6 months after the Effective Date or within the 6 months after an advance under a line of credit.

Example: if you break your leg within the 6 months before the Effective Date or an advance under a line of credit, and you become disabled because of that broken leg within 6 months after the Effective Date or advance, we will not make any cancellations. However, if you become disabled 7 months after the Effective Date or advance, we will make cancellations as described in the Benefit Chart.

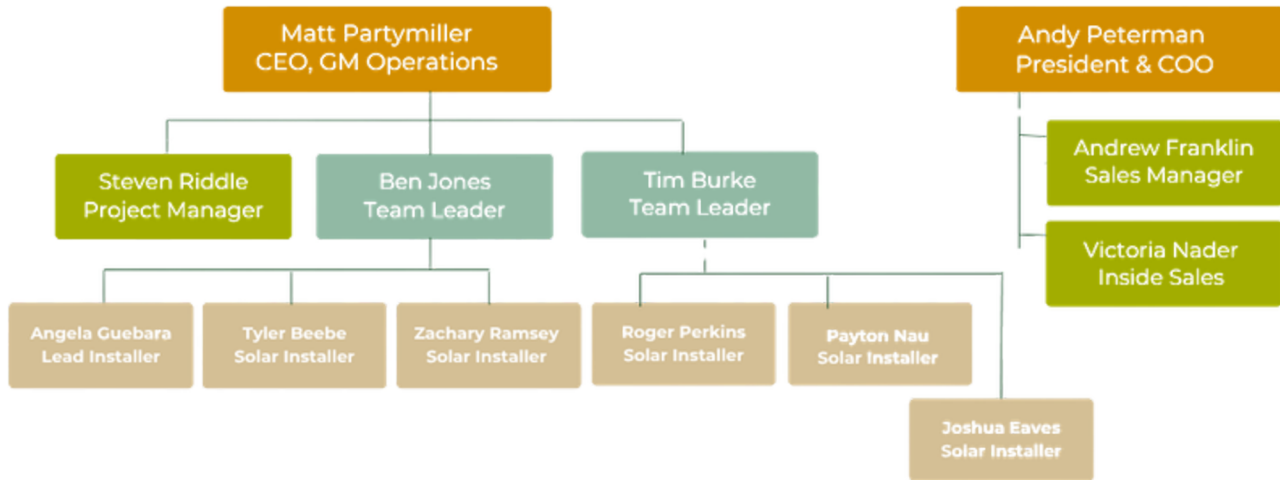
WHO TO CONTACT WITH QUESTIONS OR CONCERNS ABOUT THIS PLAN

Call us at (720) 479-7900 or write or visit us at Clean Energy Federal Credit Union, PO Box 4233, Englewood, CO 80155.

THIS IS NOT AN INSURANCE POLICY

This agreement is not a policy of insurance and you will not receive cash benefits. This agreement is between you and us as your creditor. Under this agreement, we will cancel your loan balance or payments if you qualify for such cancellation(s) under the terms of this agreement. If your claim is approved by us, we will cancel your balance or loan payments in accordance with this agreement. We have hired Minnesota Life Insurance Company to administrator claims on our behalf, but they are not a party to this agreement.

BIOS AND ORGANIZATION CHART FOR PROGRAM ATTACHMENT I



Matt Partymiller, GM

Matt is the founder and co-owner of SES. Since 2006, Matt has directed the day-to-day operations of SES, overseeing engineering, procurement, and installation of all SES systems. Matt holds electrical licenses in multiple jurisdictions and has been NABCEP (North American Board of Certified Energy Practitioners) certified since 2007. Matt is also actively involved in the solar community. Matt is current President and co-founder of the Kentucky Solar Industries Association. Matt has testified before the Kentucky legislature and the Kentucky Public Service Commission (he has also been active in cases before the Indiana Utility Regulatory Commission and Public Utilities Commission of Ohio). Matt lives in a solar powered home with battery backup and is committed to using 100% clean, renewable power.



Frances Lockwood, Founder

Frances Lockwood, PhD., P.E (Professional Engineer), is the President and majority partner of Solar Energy Solutions. Dr. Lockwood is a chemical engineer with 30 years of experience in the management of R&D, planning, and project management. Dr. Lockwood takes primary responsibility for bid preparation and project oversight. She is responsible for forming bid teams with subcontractors and for the SES safety program. She maintains financing for SES, chairs monthly meetings, and convenes the SES Advisory Board meetings. Dr. Lockwood has twice been elected as Vice-Chairman of the Kentucky Solar Energy Society.

BIOS AND ORGANIZATION CHART FOR PROGRAM ATTACHMENT I



Andy Peterman, President & COO

Andrew Peterman serves as President and Chief Operating Officer of Solar Energy Solutions, bringing more than two decades of executive leadership across the energy, distribution, and industrial sectors to the company's continued growth throughout the Midwest and Mid-Atlantic Regions.

Before joining SES, Andrew spent eight years at Valvoline Global Operations, an international energy products company based in Lexington, KY. Most recently, he served as General Manager and Vice President of Valvoline Europe, based in Rotterdam, where he led a \$500 million enterprise spanning 46 countries. There, Andrew helped advance the company's sustainability portfolio, expanding next-generation product lines including EV heat transfer fluids, data center immersion cooling solutions, and low-carbon lubricants engineered for the energy transition. Andrew brings the operating discipline of one of the world's largest energy enterprises directly to SES.

Andrew also serves on the Board and Executive Committee of Junior Achievement, championing financial literacy, entrepreneurship, and workforce readiness for students across central Kentucky.

He holds a Bachelor of Arts in History and Business from Loyola University, New Orleans.



Daniel Young, VP Engineering

Daniel holds a bachelor's degree in mechanical engineering and an associate degree in renewable energy systems. He has been designing and installing solar energy systems since 2006 and has held NABCEP certification since 2008. He was previously in the role of Senior System Designer at another solar installation company and held that role for 7 years before joining SES. Daniel has had experience designing and installing solar energy systems ranging from small off-grid cabins, up to multi-megawatt utility generation plants.

BIOS AND ORGANIZATION CHART FOR PROGRAM ATTACHMENT I

Ty Webb

Ty Webb, Director of Operations and Maintenance, joined the Solar Energy Solutions Team in February 2026. Ty brings to SES a long tenure of building high performing Service organizations and driving operational efficiency. With a bachelor's degree in business management, Ty led multiple service and operations teams during his tenure at Lexmark International. Most recently Ty was an executive leader for Illinois Tool Works, leading their Marking and Coding division as the Director of Operations while leading Manufacturing, Supply Chain, EHS, Facilities, Quality, Manufacturing Engineering, and the Field Service organization across six global facilities. Ty is an experienced operational leader that thrives on improving systems, empowering teams, and building employee skillset to achieve and maintain high operational standards in output and delivery.

Steven Riddle, Project Manager Residential

Steven Riddle, Residential and Small Commercial Project Manager, started with Solar Energy Solutions in October of 2022 after spending 13 years in various customer facing roles with a leader in the packaged beverage industry. The final 8 of those as District Sales Manager for the Lexington KY branch, where he managed a mixed team of salespersons and front-line merchandisers and partnered with Distribution to increase delivery effectiveness.

Andrew Franklin

Andrew, Solar Sales Consultant, joined SES in April of 2023 in a warehouse role, using the opportunity to gain knowledge of solar installation, components, and design. He moved to the sales department in March 2024, specializing in the design and sale of residential solar and battery storage systems. Andrew brings decades of sales and management experience in the automotive and food service industries, applying those skills to provide outstanding customer experience for clients of SES.