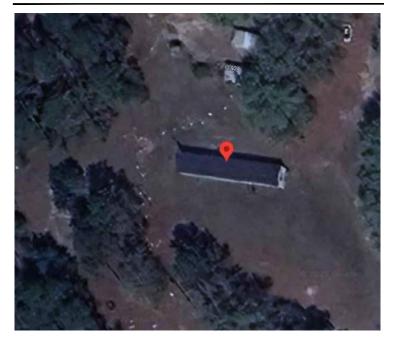
VICINITY MAP



HOUSE PHOTO



NEW ROOF MOUNT PHOTOVOLTAIC SYSTEM SYSTEM SIZE: 10.200 KW DC, 5.760 KW AC 1192 SW COYOTE CIR, FORT WHITE, FL 32038

SHEET INDEX

for Code PV-1-----COVER SHEET PV-2----SITE PLAN PV-3-----ROOF PLAN PV-4----STANDOFF PLAN PV-5-----LINE DIAGRAM PV-6-----WARNING LABELS & PLACARD PV-7.1 TO PV-7.8 - - - - - RESOURCE DOCUMENTS

SCOPE OF WORK

(N) 10.200 KW DC / 5.760 KW AC ROOF MOUNTED PV SYSTEM

(24) JINKO SOLAR JKM425N-54HL4-B 425W MODULES

(1) SOLAREDGE SE5700H-USMN HOME HUB (240V) INVERTER

(24) SOLAREDGE S440 (240V) OPTIMIZERS

(1) SOLAREDGE ENERGY BANK 10KWH BATTERY

(1) SOLAREDGE BACKUP INTERFACE

SUNMODO NANO MOUNT L-FOOT ATTACHMENTS SUNMODO SMR 100 RAIL.MILL RAILS

AUTHORITIES HAVING JURISDICTION

COLUMBIA COUNTY, FL AHJ:

UTILITY: CLAY ELECTRIC COOPERATIVE INC

GOVERNMENT CODES

2023 FBC-BUILDING 8TH EDITION 2023 FBC-RESIDENTIAL 8TH EDITION 2020 NEC (NFPA 70) 2023 FFPC 8TH EDITION

GENERAL NOTES

- 1. ALL COMPONENTS ARE UL LISTED AND NEC CERTIFIED, WHERE WARRANTED
- 2. THE SOLAR PV SYSTEM WILL BE INSTALLED IN ACCORDANCE WITH ARTICLE 690 OF THE NEC
- 3. THE UTILITY INTERCONNECTION APPLICATION MUST BE APPROVED AND PV SYSTEM INSPECTED PRIOR TO PARALLEL OPERATION.
- ALL CONDUCTORS OF A CIRCUIT, INCLUDING THE EGC, MUST BE INSTALLED IN THE SAME RACEWAY, OR CABLE, OR OTHERWISE RUN WITH THE PV ARRAY CIRCUIT CONDUCTORS WHEN THEY LEAVE THE VICINITY OF THE PV ARRAY.
- WHERE METALLIC CONDUIT CONTAINING DC CONDUCTORS IS USED INSIDE THE BUILDING, IT SHALL BE IDENTIFIED AS "CAUTION: SOLAR CIRCUIT" EVERY 10FT.
- HEIGHT OF THE AC DISCONNECT SHALL NOT EXCEED 6'-7" PER NEC CODE 240.24.
- A GROUNDING ELECTRODE SYSTEM IN ACCORDANCE WITH NEC 690.47 AND 250.50 THROUGH 60 AND 250-166 SHALL BE PROVIDED. PER NEC GROUNDING ELECTRODE SYSTEM OF EXISTING BUILDING MAY BE USED AND BONDED TO THE SERVICE ENTRANCE. IF EXISTING SYSTEM IS INACCESSIBLE OR INADEQUATE A SUPPLEMENTAL GROUNDING ELECTRODE WILL BE USED AT THE INVERTER LOCATION CONSISTING OF A UL LISTED 8 FT. GROUND ROD WITH ACORN CLAMP. GROUNDING ELECTRODE CONDUCTORS SHALL BE NO LESS THAN #8 AWG AND NO LARGER THAN #6 AWG COPPER AND BONDED TO THE EXISTING GROUNDING ELECTRODE TO PROVIDE FOR A COMPLETE SYSTEM.
- PHOTOVOLTAIC MODULES ARE TO BE CONSIDERED NON-COMBUSTIBLE.
- PHOTOVOLTAIC INSTALLATION WILL NOT OBSTRUCT ANY PLUMBING, MECHANICAL, OR BUILDING ROOF VENTS.
- 10. ALL WIRING MUST BE PROPERLY SUPPORTED BY DEVICES OR MECHANICAL MEANS DESIGNED AND LISTED FOR SUCH USE. WIRING MUST BE PERMANENTLY AND COMPLETELY HELD OFF THE ROOF SURFACE.
- 11. ALL SIGNAGE TO BE PLACED IN ACCORDANCE WITH THE LOCAL BUILDING CODE. IF EXPOSED TO SUNLIGHT, IT SHALL BE UV RESISTANT. ALL PLAQUES AND SIGNAGE WILL BE INSTALLED AS REQUIRED BY THE NEC AND AHJ.
- 12. INVERTER(S) USED IN UNGROUNDED SYSTEM SHALL BE UL 1741 LISTED.
- THE INSTALLATION OF EQUIPMENT AND ALL ASSOCIATED WIRING AND INTERCONNECTION SHALL BE PERFORMED ONLY BY QUALIFIED PERSONS [NEC 690.4(C)]
- 14. ALL OUTDOOR EQUIPMENT SHALL BE NEMA 3R RATED (OR BETTER), INCLUDING ALL ROOF MOUNTED TRANSITION BOXES AND SWITCHES.
- 15. ALL EQUIPMENT SHALL BE PROPERLY GROUNDED AND BONDED IN ACCORDANCE WITH NEC ARTICLE 250.
- 16. SYSTEM GROUNDING SHALL BE IN ACCORDANCE WITH NEC 690.41.
- 17. PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION IN ACCORDANCE WITH NEC 690.12
- 18. DISCONNECTING MEANS SHALL BE LOCATED IN A VISIBLE, READILY ACCESSIBLE LOCATION WITHIN THE PV SYSTEM EQUIPMENT OR A MAXIMUM OF 10 FEET AWAY FROM THE SYSTEM
- 19. ALL WIRING METHODS SHALL BE IN ACCORDANCE WITH NEC 690.31
- 20. WORK CLEARANCES AROUND ELECTRICAL EQUIPMENT WILL BE MAINTAINED PER NEC 110.26(A)(1), 110.26(A)(2) AND 110.26(A)(3).
- 21. ROOFTOP MOUNTED PHOTOVOLTAIC PANELS AND MODULES SHALL BE TESTED, LISTED & IDENTIFIED IN ACCORDANCE WITH UL1703
- 22. ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT EXPANSION JOINTS AND ANCHOR CONDUIT RUNS AS REQUIRED PER NEC.
- 23. IN ACCORDANCE WITH 2021 IFC 1205.5, 2018 IFC 1204.4, AND 2015 IFC 605.11.2 A CLEAR. BRUSH-FREE AREA OF 10 FEET(3048 MM) SHALL BE REQUIRED FOR GROUND-MOUNTED PHOTOVOLTAIC ARRAYS
- 24. PANEL LAYOUT ORIENTATION IS SUBJECT TO CHANGE ON DESIGNED MOUNTING PLANES.
- 25. ALL PERMANENTLY INSTALLED LUMINARIES, EXCLUDING THOSE IN KITCHEN APPLIANCES, SHALL HAVE AN EFFICIENCY OF AT LEAST 45 LUMENS-PER-WATT OR SHALL UTILIZE LAMPS WITH AN EFFICIENCY OF NOT LESS THAN 65 LUMENS-PER-WATT.
- 26. MOUNTING SYSTEMS SHALL BE LISTED AND LABELLED IN ACCORDANCE WITH UL 2703 TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND THEIR LISTINGS.



GOGENESIS SOLAR

6028 STONYBROOK CT. **TOPEKA, KS 66614** (913) 228-4495

info@gogenesissolar.com

DC SIZE: 10.200 KW DC AC SIZE: 5,760 KW AC

DAVID CONLEY JR

1192 SW COYOTE CIR. FORT WHITE. FL 32038



Richard

Pantel

Digitally signed by Richard Pantel Date: 2025.05.02 17:00:37 -04'00'

Reviewed and approved Richard Pantel, P.E. FL Lic. No. 73222

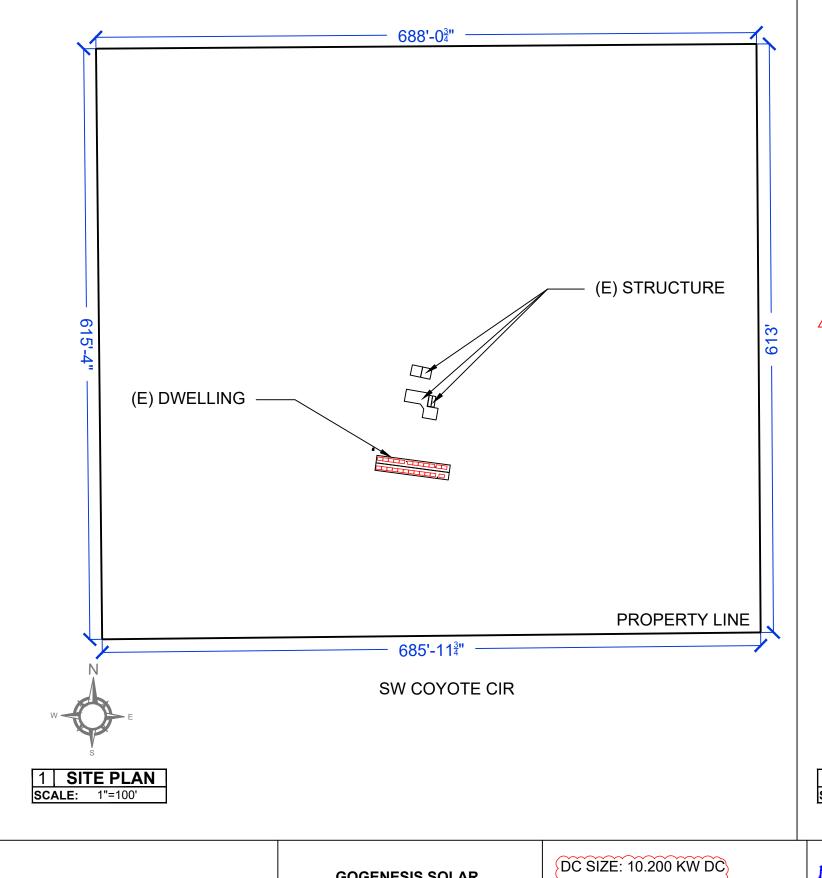
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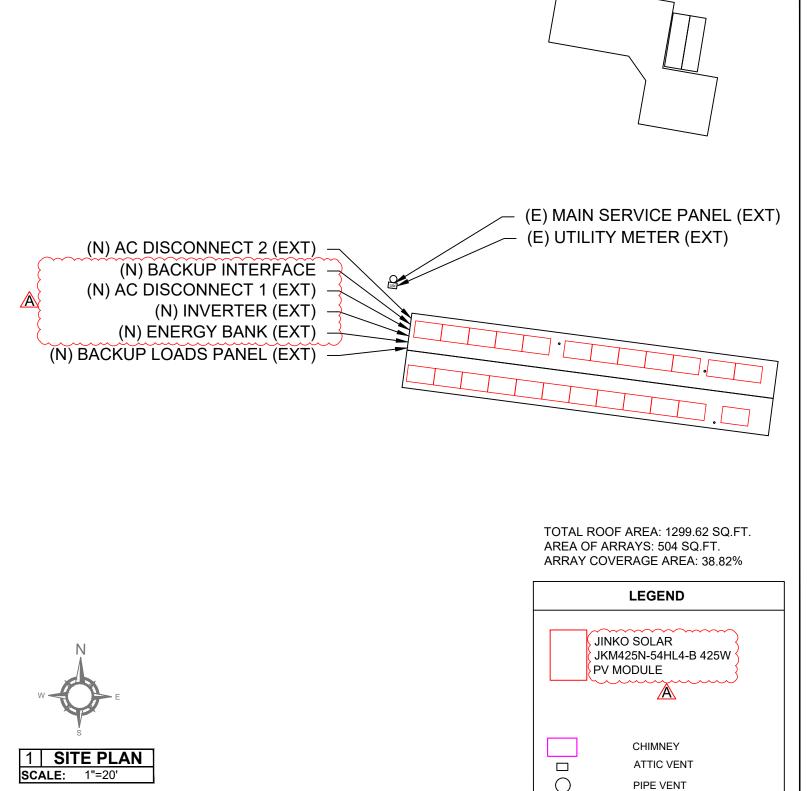
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COVER SHEET

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GOGENESIS SOLAR

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info@gogenesissolar.com

AC SIZE: 5.760 KW AC

DAVID CONLEY JR

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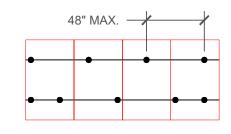


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viewed and approved chard Pantel, P.E. Lic. No. 73222 /02/2025	DATE	REV		
	4/30/2025	Α		

SITE PLAN

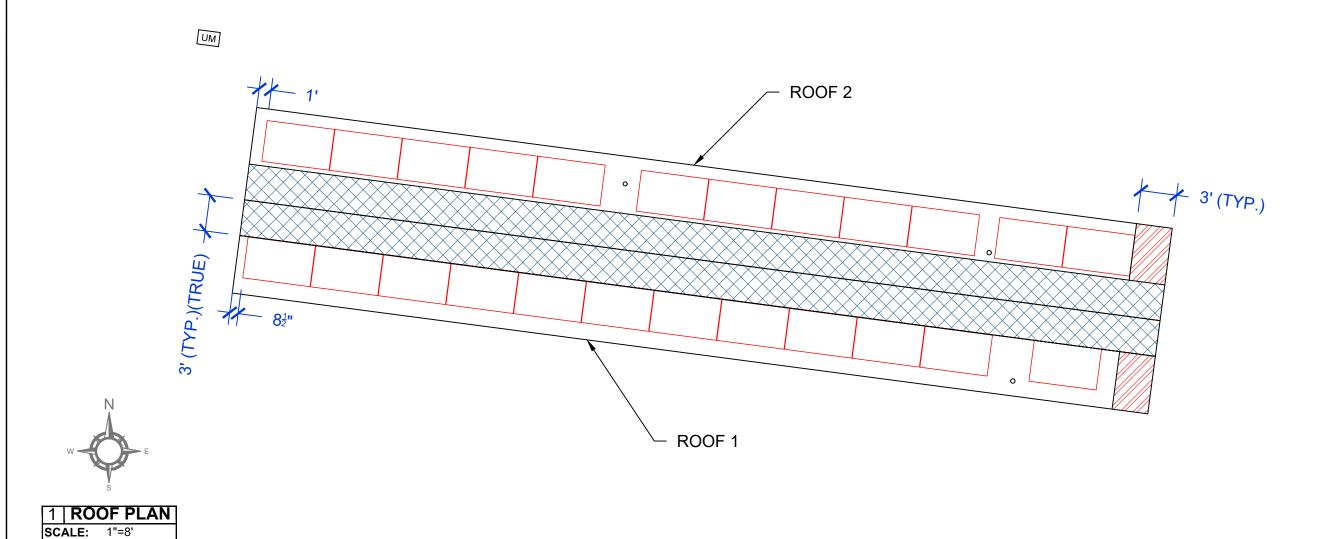
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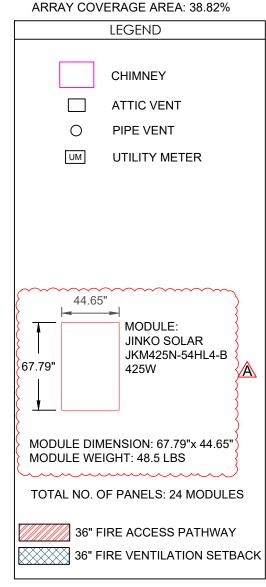
	ROOF INFORMATION							
ARRAY	PANEL COUNT	AZIMUTH	PITCH	ROOF TYPE	ATTACHMENT	FRAME TYPE & SPACING	ATTACHMENT SPACING	
ROOF 1	12	188°	23°	SHINGLE	SUNMODO NANO MOUNT L-FOOT	2"X4" RAFTERS @ 24" OC	48"	
ROOF 2	12	8°	23°	SHINGLE	SUNMODO NANO MOUNT L-FOOT	2"X4" RAFTERS @ 24" OC	48"	



MAX. ATTACHMENT SPACING: 48" (STAGGERED ATTACHMENTS)

TOTAL ROOF AREA: 1299.62 SQ.FT. AREA OF ARRAYS: 504 SQ.FT. ARRAY COVERAGE AREA: 38.82%







GOGENESIS SOLAR

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info@gogenesissolar.com

DC SIZE: 10.200 KW DC AC SIZE: 5,760 KW AC

DAVID CONLEY JR

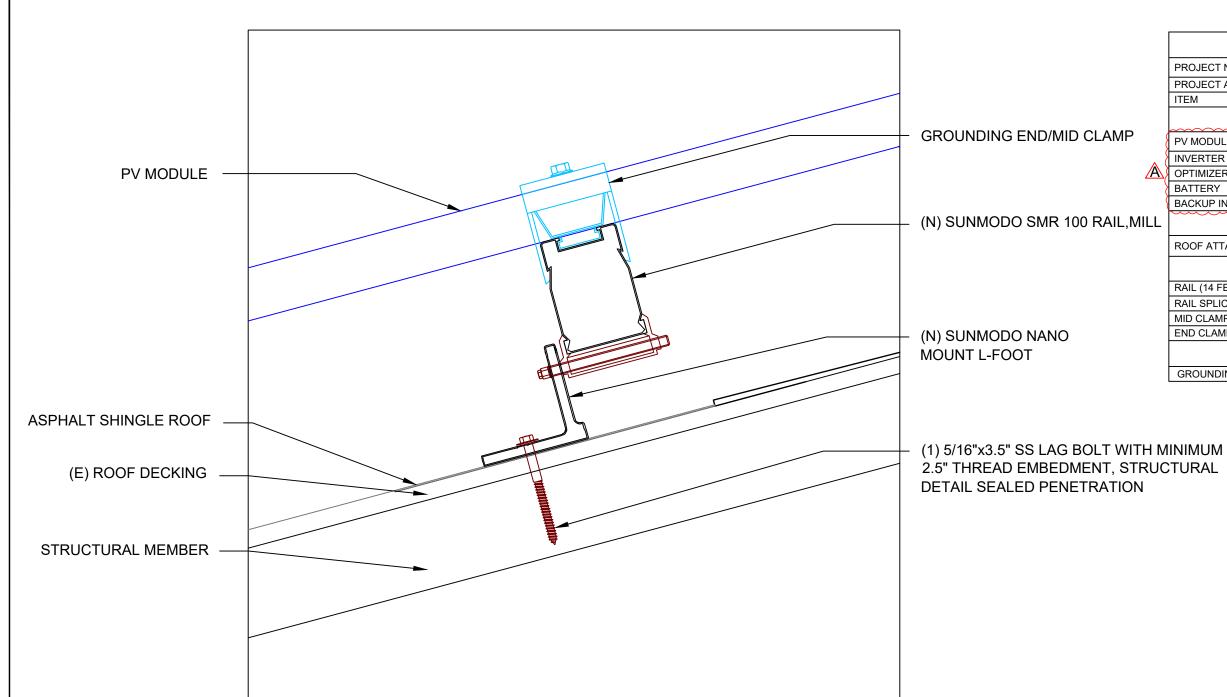
1192 SW COYOTE CIR, FORT WHITE, FL 32038



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	BILL OF MATERTIALS						
PROJECT NAME	PROJECT NAME DAVID CONLEY JR						
PROJECT ADDRESS	1192 SW COYOTE CIR, FORT WHITE, FL 32	2038					
ITEM	ITEM DESCRIPTION	QUANTITY					
	ELECTRICAL EQUIPMENT	2000000					
PV MODULE	JINKO SOLAR JKM425N-54HL4-B 425W	24					
INVERTER	SOLAREDGE SE5700H-USMN HOME HUB	1					
OPTIMIZER	SOLAREDGE S440	24					
BATTERY	SOLAREDGE ENERGY BANK 10KWH	1					
BACKUP INTERFACE	SOLAREDGE BACKUP INTERFACE	1					
ROOF ATTACHMENT HARDWARE							
ROOF ATTACHMENT	SUNMODO NANO MOUNT L-FOOT	80					
MOUNTING HARDWARE							
RAIL (14 FEET)	SUNMODO SMR 100 RAIL,MILL	23					
RAIL SPLICE	RAIL SPLICE	14					
MID CLAMP	MID CLAMP	36					
END CLAMP	END CLAMP	24					
	GROUNDING HARDWARE						
GROUNDING LUGS	GROUNDING LUGS	6					



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1192 SW COYOTE CIR, FORT WHITE, FL 32038



Review	ed and approved	
Richard	Pantel, P.E.	
FL Lic.	No. 73222	
05/02/2	025	

DATE REV 4/30/2025 Α

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STANDOFF PLAN

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	CONDUCTOR AND CONDUIT SCHEDULE W/ELECTRICAL CALCULATIONS												
ID	CONDUCTOR	EGC	NEUTRAL	CONDUIT SIZE	TEMP. CORR. FACTOR	CURRENT-CARRYING CONDUCTORS IN CONDUIT	FILL FACTOR	MAX OUTPUT CURRENT (A)	REQUIRED AMPACITY (MAX OUTPUT CURRENT X125%) (A)	OCPD / FUSE (A)	CONDUCTOR BASE (A)	CONDUCTOR DERATED (A)	TERM. TEMP. RATING
01	(2) 10 AWG PV WIRE,CU	(1) 6 AWG BARE, CU	N/A	FREE AIR	.96 (32.7°C)	N/A	N/A	15	18.75	20	40	40.00	90°C
02	(4) 10 AWG THWN-2, CU	(1) 10 AWG THWN-2, CU	N/A	3/4" EMT	.96 (32.7°C)	4	0.8	15	18.75	20	40	30.72	90°C
03	(2) 10 AWG THWN-2, CU	(1) 10 AWG THWN-2, CU	(1) 10 AWG THWN-2, CU	3/4" EMT	.94 (32.7°C)	2	1.0	24	30.00	30	35	33.60	75°C
04	(2) 6 AWG THWN-2, CU	(1) 8 AWG THWN-2, CU	(1) 6 AWG THWN-2, CU	3/4" EMT	.94 (32.7°C)	2	1.0	24	30.00	30	65	62.40	75°C

ASHRAE 2% HIGH

DESIGN TEMPERATURES

-10.5 °C

-10.5 °C

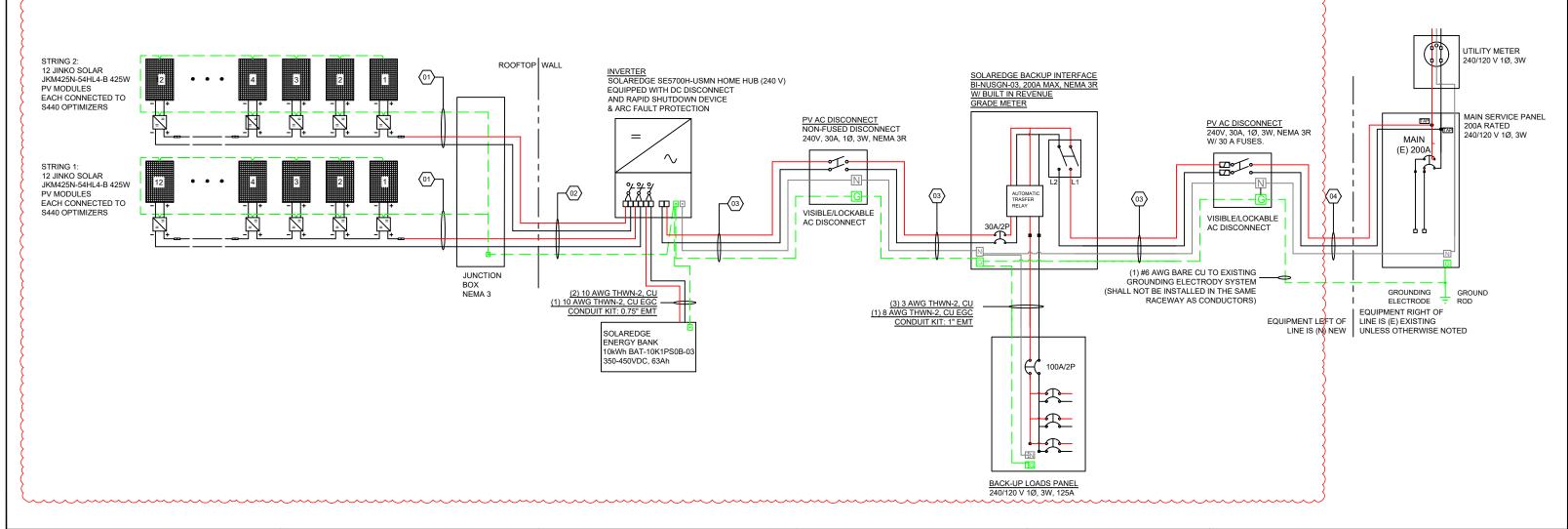
-10.5 °C

-10.5 °C

-10.5 °C

-10.5 °C

NOTE: HEIGHT OF THE CONDUIT ABOVE ROOFTOP TO BE AT LEAST 7/8TH OF AN INCH PER 310.15(B)(3)(C)





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05/02/2025	/

DATE REV

4/30/2025 A

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LINE DIAGRAM

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DATE DRAWN 02/06/2025

CAUTION PHOTOVOLTAIC SYSTEM CIRCUIT IS BACKFED

[NEC 705.12(D) & 690.59] PLACE LABEL ON ALL EQUIPMENT CONTAINING OVERCURRENT DEVICES IN CIRCUITS SUPPLYING POWER TO A BUSBAR OR CONDUCTORS SUPPLIED FROM MULTIPLE SOURCES

WARNING: PHOTOVOLTAIC POWER SOURCE

[NEC 690.31(G)3 & 4] PLACE ON JUNCTION BOXES AND CONDUIT EVERY 10'

WARNING

THE DISCONNECTION OF THE GROUNDED CONDUCTOR(S) MAY RESULT IN OVERVOLTAGE ON THE EQUIPMENT

[NEC 690.31(I)(E)] PLACE THIS LABEL ON ALL DISCONNECTING MEANS WHERE **ENERGIZED IN AN OPEN POSITION**

WARNING

ELECTRIC SHOCK HAZARD TERMINALS ON THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

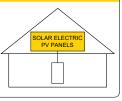
[NEC 690.15(C) & NEC 690.13(B)] PLACE THIS LABEL ON ALL DISCONNECTING MEANS WHERE ENERGIZED IN AN OPEN POSITION

ENERGY STORAGE SYSTEM DISCONNECT

CODE REF: [NEC 706.15(C)]
LOCATION: PLACE ON ENERGY STORAGE SYSTEMS

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO SHUT DOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN THE ARRAY



FOR PV SYSTEMS THAT SHUT DOWN THE ARRAY AND CONDUCTORS LEAVING THE ARRAY: SIGN TO BE LOCATED ON OR NO MORE THAN 3 FT AWAY FROM SERVICE DISCONNECTING MEANS TO WHICH THE PV SYSTEMS ARE CONNECTED AND SHALL INDICATE THE LOCATION OF ALL IDENTIFIED RAPID SHUTDOWN SWITCHES IF NOT AT THE SAME LOCATION. [NEC 690.56(C)(1)(A)]

PHOTOVOLTAIC AC DISCONNECT

RATED AC OUTPUT CURRENT: NOMINAL AC OPERATING VOLTAGE **24A MAX** 240 VAC

[NEC 690.54] PLACE LABEL AT "INTERACTIVE POINT OF INTERCONNECTION" (AT MAIN SERVICE PANEL AND SUBPANEL IF APPLICABLE)

WARNING

DUAL POWER SOURCE SECOND SOURCE IS PHOTOVOLTAIC SYSTEM

[NEC 705.12(C) & NEC 690.59] PLACE LABEL ON ALL **EQUIPMENT CONTAINING OVERCURRENT DEVICES IN** CIRCUITS SUPPLYING POWER TO A BUSBAR OR CONDUCTORS SUPPLIED FROM MULTIPLE SOURCES

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

[NEC 690.56(C)(2)] PLACE AT MAIN SERVICE PANEL

- 1. WHITE LETTERING ON A RED BACKGROUND
- 2. MINIMUM 3/8 INCHES LETTER HEIGHT
- 3. ALL LETTERS SHALL BE CAPITALIZED
- 4. ARIAL OR SIMILAR FONT (NON-BOLD)

WARNING!

THIS EQUIPMENT FED BY MULTIPLE SOURCES.

TOTAL RATING OF ALL OVERCURRRENT DEVICES, EXCLUDING MAIN SUPPLY OVERCURRENT DEVICE, SHALL NOT EXCEED AMPACITY OF BUSBAR

[NEC 705.12(B)(3)(3)] PLACE THIS LABEL AT P.O.C. TO SERVICE DISTRIBUTION EQUIPMENT

WARNING

TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE THE PANEL

[NEC 110.27(C) & OSHA 1910.145(f)(7)] PLACE ON ALL COMBINER BOX/ENCLOSURES, MAIN SERVICE DISCONNECT, BREAKER PANEL AND PULL BOXES

PHOTOVOLTAIC

AC DISCONNECT

[NEC 690.13(B)] PLACE ON AC DISCONNECT

WARNING

POWER SOURCE OUTPUT CONNECTION

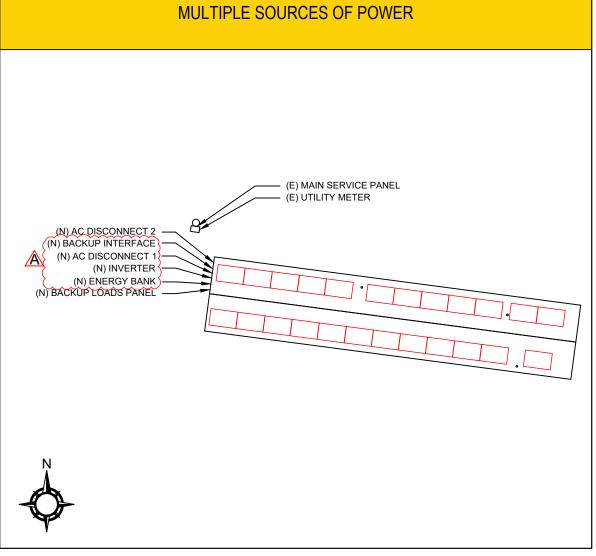
DO NOT RELOCATE THIS OVERCURRENT

CODE REF: [NEC 705.12(B)(3)(2)] LOCATION: PLACE LABEL ON ALL EQUIPMENT CONTAINING OVERCURRENT DEVICES IN CIRCUITS SUPPLYING POWER TO A BUSBAR OR CONDUCTORS SUPPLIED

REFLECTIVE. WEATHER RESISTANT MATERIAL SUITABLE FOR THE ENVIRONMENT (USE UL-969 AS STANDARD FOR WEATHER RATING). **DURABLE ADHESIVE MATERIALS**

PERMANENT PLAQUE OR DIRECTORY PROVIDING THE LOCATION OF THE SERVICE DISCONNECTING MEANS AND THE PHOTOVOLTAIC SYSTEM.

CAUTION



(ALL PLAQUES AND SIGNAGE WILL BE INSTALLED AS OUTLINED WITHIN: NEC 690.56(A)&(B), [NEC 705.10])

REVISION



GOGENESIS SOLAR

6028 STONYBROOK CT, **TOPEKA,KS** 66614 (913) 228-4495

info@gogenesissolar.com

DC SIZE: 10.200 KW DC AC SIZE: 5,760 KW AC A

DAVID CONLEY JR

1192 SW COYOTE CIR, FORT WHITE, FL 32038



Reviewed and approved	
Richard Pantel, P.E.	
FL Lic. No. 73222	
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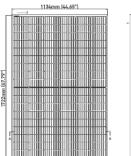
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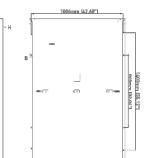
WARNING LABELS & **PLACARD**

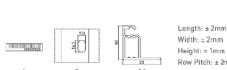
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DATE DRAWN	02/06/2025



ENGINEERING DRAWINGS







TEMPERATURE CHARACTERISTICS Length: ± 2mm

No. of Half Cells

Dimensions

Front Glass Frame

Junction Box

Fire Type

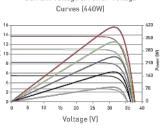
Output Cables

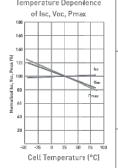
-0.29%/°C	
+0.25%/°€	
0.045%/°C	
45±2°C	
	-0.25%/°C 0.045%/°C

5400Pa (Snow) & 2400Pa (Wind)

ELECTRICAL PERFORMANCE & TEMPERATURE DEPENDENCE

Current-Voltage & Power-Voltage Curves (440W)





MAXIMUM RATINGS

Operating Temperature (°C)	-40°C~+85°C
Maximum System Voltage	1000VDC
Maximum Series Fuse Rating	25A

PACKAGING CONFIGURATION

MECHANICAL CHARACTERISTICS

108 (2 x 54)

22.0kg (48.5lbs

IP68 Rated

Staubli MC4

Anodized Aluminum Allov

1722 × 1134 × 35mm (67.79 × 44.65 × 1.38 inch)

3.2mm, Anti-Reflection Coating High Transmission, Low Iron, Tempered Glass

12 AWG, 1400mm (55.12in) or Customized Length

31pcs/pallets, 62pcs/stack, 806pcs/40 HQ Contained

WARRANTY

 $25\hbox{-year product and }30\hbox{-year linear power warranty}$

1st year degradation not to exceed 1%, each subsequent year not to exceed 0.4%, minimum power at year 30 is 87.4% or greater.

ELECTRICAL CHARACTERISTICS

CEEGITTOTIE GITTING CEIT	101100									
Module Type	JKM420N	-54HL4-B	JKM425N	-54HL4-B	JKM430N	-54HL4-B	JKM435N	1-54HL4-B	JKM4401	€-54HL4-B
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	420Wp	316Wp	425Wp	320Wp	430Wp	323Wp	435Wp	327Wp	440Wp	331Wp
Maximum Power Voltage (Vmp)	32.16V	29.95V	32.37V	30.19V	32.58V	30.30V	32.78V	30.50V	32.99V	30.73V
Maximum Power Current (Imp)	13.06A	10.55A	13.13A	10.60A	13.20A	10.66A	13.27A	10.72A	13.34A	10.77A
Open-circuit Voltage (Voc)	38.74V	36.80V	38.95V	37.00V	39.16V	37.20V	39.36V	37.39V	39.57V	37.59V
Short-circuit Current (lsc)	13.51A	10.91A	13.58A	10.96A	13.65A	11.02A	13.72A	11.08A	13.80A	11.14A
Module Efficiency STC (%)	21.5	51%	21.	76%	22.	02%	22.	28%	22.	53%

*STC: * Irradiance 1000W/m2 NOCT: * Irradiance 800W/m²

Cell Temperature 25°C Ambient Temperature 20°C

AM = 1.5

AM = 1.5

Wind Speed 1m/s

The company reserves the final right for explanation on any of the information presented hereby. JKM400-420N-54HL4-B-F1-US

BUILDING YOUR TRUST IN SOLAR, WWW.JINKOSOLAR.US



 ISO9001:2015 Quality Standards ISO14001:2015 Environmental Standards IEC61215, IEC61730 certified products

GENESIS

Health & Safety Standards

CE CUL US LISTED

JinKO Solar

BUILDING YOUR TRUST IN SOLAR, WWW.JINKOSOLAR,US

GOGENESIS SOLAR

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1	02/06/2025	RAWN	DATE DR		

SolarEdge Home Hub Inverter

For North America

SE3800H-US / SE5700H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US⁽¹⁾



BACKUP

Optimized battery storage with HD-Wave technology

- ✓ Record-breaking 99% weighted efficiency with 200% DC oversizing
- Supports LRA can provide the required energy for HVAC systems starting during
- Small, lightweight, and easy to install
- Modular design, future ready with optional
- DC-coupled storage for full or partial home
- Built-in consumption monitoring

solaredge.com

Direct connection to the SolarEdge Home

- Multi-inverter, scalable storage solution, with enhanced battery power up to 10kW
- Integrated arc fault protection and rapid shutdown for NEC 2014 - 2023, per article 690.11 and 690.12
- Embedded revenue grade production data, ANSI C12.20 Class 0.5





/ SolarEdge Home Hub Inverter

For North America

SE3800H-US / SE5700H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US⁽¹⁾

Applicable to inverters with part number SEXXXXH-USMNBBXXXX / SEXXXXH-USSNBBXXXX							
	SE3800H-US	SE5700H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	Ui
OUTPUT - AC ON GRID				V.			
Rated AC Power	3800 @ 240V 3300 @ 208V	5760 @ 240V 5000 @ 208V	6000 @ 240V 5000 @ 208V	7600	10000	11,400 @ 240V 10,000 @ 208V	,
Maximum AC Power Output	3800 @ 240V 3300 @ 208V	5760 @ 240V 5000 @ 208V	6000 @ 240V 5000 @ 208V	7600	10000	11,400 @ 240V 10,000 @ 208	
AC Output Voltage (Nominal)		208 / 240					
AC Output Voltage (Range)		183 – 264					
AC Frequency Range (min - nom - max)			59.3 - 6	0 60.5 ⁽²⁾			
Maximum Continuous Output Current @ 240V	16	24	25	32	42	47.5	
Maximum Continuous Output Current @ 208V	16	24	24	-	-	48	
GFDI Threshold				1			
Total Harmonic Distortion (THD)			<	: 3			
Power Factor		1, adjustable -0.85 to 0.85					
Utility Monitoring, Islanding Protection, Country Configurable Thresholds			Υ	es es			
Charge Battery from AC (if allowed)		Yes					
Typical Nighttime Power Consumption		< 25					
OUTPUT - AC BACKUP(3)(4)							
Rated AC Power in Backup Operation	7600	5760	6000	7600 11,400*	10000 11,400*	11,400	
AC L-L Output Voltage Range in Backup			211 -	- 264			
AC L-N Output Voltage Range in Backup		105 – 132					
AC Frequency Range in Backup (min - nom - max)			55 – 6	60 – 65			
Maximum Continuous Output Current in Backup Operation	32	24	25	32 47.5	42 47.5	47.5	
GFDI				1			t
THD				: 5			
OUTPUT - SOLAREDGE HOME EV CHA	RGER AC						
Rated AC Power	nden ne		04	500			Т
AC Output Voltage Range				- 264			-
On-Grild AC Frequency Range (min - nom - max)				50 - 60.5			
Maximum Continuous Output Current @240V							
(grid, PV and battery)				40			
INPUT - DC (PV AND BATTERY)							
Transformer-less, Ungrounded			٧	es			Г
Max Input Voltage			4	80			
Nom DC Input Voltage			3	80			
Reverse-Polarity Protection			Y	'es			
Ground-Fault Isolation Detection			600kΩ 5	Sensitivity			
INPUT – DC (PV)							
Maximum DC Power @ 248V	7600	11,520	12,000	15,200	20,000	22,800	Ĺ
Maximum DC Power @ 208V	6600	10,000	10,000	-	-	20,000	L
Maximum Input Current ⁽⁵⁾ @ 240V	20	16	16.5	20	- 30	30	
Maximum Input Current ⁽⁵⁾ @ 208V	9	13.5	13.5			27	
Max. Input Short Circuit Current			-	45			
Maximum Inverter Efficiency			9	9.2			
CEC Weighted Efficiency			99			99 @ 240V 98.5 @ 208V	
2-pale Disconnection			Υ	es es			
Supported with PN SExcell-UShiNoccess These specifications apply to inventers with part numbers SExce For other regional settings please contact SciarEdge support. Not designed for standsione applications and requires AC for For IRA (Locked Rotor Amperage) values please refer to the J. A higher current source may be used the inventer oil limit is:	commissioning. Backup RA for NAM application	o functionality is only s n note.			-PxH-F-x		



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/ SolarEdge Home Hub Inverter

For North America

SE3800H-US / SE5700H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US⁽¹⁾

Applicable to inverters with part number	SEXXXXH-USMNBBXXX / SEXXXXH-USSNBBXXX						
	SE3800H-US	SE5700H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	Units
OUTPUT - DC (BATTERY)		0					
Supported Battery Types		:	SolarEdge Home Ba	ttery, LG RESU Prim	ie		
Number of Batteries per Inverter		Up to 3:	SolarEdge Home Ba	ttery, up to 2 LG RE	SU Prime		
Continuous Power ⁽⁶⁾	7600 @ 240V 3800 @ 208V	5760 @ 240V 5000 @ 208V	6000	114	400	11,400 @ 240V 10,000 @ 208V	W
Peak Power ⁽⁶⁾	7600 @ 240V 3800 @ 208V	5760 @ 240V 5000 @ 208V	6000	114	100	11,400 @ 240V 10,000 @ 208V	W
Max Input Current	20			26.5			Add
2-pale Disconnection			Up to inverter rat	ed backup power			
SMART ENERGY CAPABILITIES							
Consumption Metering			Built	-in ⁽⁷⁾			
Backup & Battery Storage	Wit	h Backup Interface	purchased separate	ly) for service up to	200A; up to 3 inve	rters	
EV Charging		Direc	t connection to Sola	rEdge Home EV Cl	narger		
ADDITIONAL FEATURES							
Supported Communication Interfaces		RS485, Ethe	rnet, Cellular ^{ISS} , W	-Fi ^{SI} , SolarEdge Ho	me Network		
Revenue Grade Metering, ANSI C12.20			Built	>in ⁽²⁾			
Integrated AC, DC and Communication Connection Unit			Y	es			
Inverter Commissioning	With	the SetApp mobile	application using bu	uilt-in Wi-Fi Access	Point for local conn	ection	
DC Voltage Rapid Shutdown (PV and Battery)		Yes, according	to NEC 2014 - 2023	per article 690.11 a	nd article 690:12		
STANDARD COMPLIANCE							
Safety	UL 1741, UI	L 1741SA, UL 1741SB	, UL 1699B, CSA 22.	2#107.1, C22.2#330	, C22.3#9, ANSI/CA	N/UL 9540	
Grid Connection Standards		IE	EE 1547 and IEEE 15	47.1, Rule 21, Rule 1	4H		
Emissions			FCC Part	15 Class B			
INSTALLATION SPECIFICATIONS							
AC Output and EV AC Output Conduit Size/ AWG Range			1° maximum	/ 14 – 4 AWG		-11	
DC Input (PV and Battery) Conduit Size / AWG Range			1" maximum	/14 – 6 AWG			
Dimensions with Connection Unit (H x W x D)	17.7 x	14.6 × 6.8 / 450 × 37	0 x 174	17.7 x 14.6 x 6.8 / 450 x 370 x 174**	21.06×14.6×7.3 / 535×370×185**	21.06×14.6×8.2/ 535×370×209***	in/
					535 x 370 x 208***		
Weight with Connection Unit		30.8 / 14		30.8 / 14**	41.7 / 18.9**	44.9 / 20.3***	1678
Nata				44.9 <i>7</i> 50	20.3***		10.
Noise Cooling			Natural C				dB/
Cooling							*F/
Operating Temperature Range Protection Rating			(-) 40 to (+) 140 / NEW				F/

** Supported with PN SEXXXXH-USSNBBXX4 or SEXXXH-USMNBBXX4.

*** Supported with PN SEXXXH-USSNBBXX5 or SEXXXH-USMNBBXX5.

*** Supported with PN SEXXXH-USSNBBXX5 or SEXXXH-USMNBBXX5.

(7) For consumption metering current transformers should be ordered separately. SECT-SPL-225A-T-20 or SEACTOYSO-40XXH-20 units per box. Revenue grade metering it only for production metering.

(8) Information concerning the Oate Plan's terms & conditions is available in the Sexatedge Communication Health and Lenses and Conditions.

(9) The part number SDXXXH-USXNBBXXX only supports the VH-F communication Health are, and the part number SDXXXH-USXNBBXXX only supports the VH-F communication Health are, and the part number SDXXXH-USXNBBXXX only supports the VH-F communication Health are.

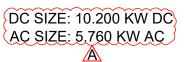
(10) Full power up to at least 50*C/ 122*F. For power densiting information refer to the Temperature Densiting Construction Index.





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Power Optimizer For Residential Installations

S440, S500, S500B



Enabling PV power optimization at the module level

- Specifically designed to work with SolarEdge residential inverters
- Detects abnormal PV connector behavior, preventing potential safety issues*
- / Module-level voltage shutdown for installer and firefighter safety
- Superior efficiency (99.5%)

- / Mitigates all types of module mismatch loss, from manufacturing tolerance to partial shading
- Faster installations with simplified cable management and easy assembly using a single bolt
- Flexible system design for maximum space utilization
- Compatible with bifacial PV modules

* Functionality subject to inverter model and firmware version

solaredge

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/ Power Optimizer

For Residential Installations

S440, S500, S500B

	S440	\$500	S500B	UNI	
0.11200	440	T	500		
Rated Input DC Power ⁽¹⁾		0	500	W	
Absolute Maximum Input Voltage (Voc)	,		125	Vdi	
MPPT Operating Range		60	12.5- 105	Vd	
Maximum Short Circuit Current (Isc) of Connected PV Module	14.5	20.5	15	Ad	
Maximum Efficiency		99.5		%	
Weighted Efficiency		98.6		96	
Overvoltage Category	1				
OUTPUT DURING OPERATION					
Maximum Output Current		15		Ad	
Maximum Output Voltage	6	60	80	Vd	
OUTPUT DURING STANDBY (POWER OPTIMIZER DI	SCONNECTED FROM IN	VERTER OR INVERTE	ER OFF)	- 11	
Safety Output Voltage per Power Optimizer		1		Vd	
STANDARD COMPLIANCE					
EMC	FCC Part 15 Class	B, IEC61000-6-2, IEC61000-6	i-3, CISPR11, EN-55011		
Safety	IEC62109-1 (class II safety), UL1741				
Material	UL94 V-0, UV Resistant				
RoHS	Yes				
Fire Safety	VDE-AR-E 2100-712;2013-05				
INSTALLATION SPECIFICATIONS		2010 2010-201	TO I		
Maximum Allowed System Voltage		1000		Vd	
Dimensions (W x L x H)	129 x 1	55 x 30	128.4 x 155 x 45	mr	
Weight (including cables)		655	<u>'</u>	gr	
Input Connector		MC4 ²⁵			
Input Wire Length		0.1		m	
Output Connector		MC4			
Output Wire Length		(+) 2.3, (-) 0.10		m	
Operating Temperature Range ^{III}		-40 to +85		.0	
Protection Rating		IP68 / NEMA6P			
Relative Humidity		0 - 100		96	

(4) If the inverters rated AC power s maximum nominal power per string, then the maximum power per string will be able to reach up to the inverters maximum input DC power Refer to https://www.sclaredge.com/sites/defaul/files/se-power-optimizer-single-string-design-application-note.pcf (6) For the 20/000/grid; it is allowed to install up to 15,0000 we printing when the maximum power difference between each string is 2,000W (6) For the 277/400V grid; it is allowed to install up to 15,000W per string when the maximum power difference between each string is 2,000W



GOGENESIS SOLAR

6028 STONYBROOK CT, **TOPEKA,KS 66614** (913) <u>228-4495</u>

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DC SIZE: 10.200 KW DC AC SIZE: 5,760 KW AC A

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SolarEdge Home Battery 400V **USA Domestic Content Eligible*** For North America





SolarEdge's USA-manufactured offering optimized for SolarEdge Home Hub Inverters

- Eligible for domestic content: SolarEdge USAmanufactured batteries* are intended to be eligible for the enhanced federal income tax credit for
- DC coupled battery featuring outstanding overall system efficiency, generating more energy to store and use for on-grid and backup** power applications
- Integrates seamlessly with the complete SolarEdge Home ecosystem using SolarEdge Home Network, offering a single source for warranty, support, and training, to streamline logistics and operations
- Solar, storage, EV charging, and smart devices all monitored and managed by a single app to an optimized production, consumption, and backup*

- Includes multiple safety features:
 - Continuous protection through measurement and monitoring, using a mix of software and hardware
- Rapid Shutdown and SafeDC™
- Qualified by UL9540A, the latest and most stringent UL fire safety standard
- Featuring ThermoShield™ technology: a cell-level
- Simple plug and play installation, with automatic SetApp-based configuration
- Flexible installation wall or floor mount, indoor or
- Wireless communication to the inverter, reducing wiring, labor, and installation

solaredge.com



/ SolarEdge Home Battery 400V **USA Domestic Content Eligible, for North America** BAT-10K1P

		UBAT-10K1PS0B-03	
BATTERY SPECIFICAT	TION		
Usable Energy (100% depth :	of discharge)	9700	Wh
Continuous Output Power ⁽¹⁾		5000	W
Peak Output Power (for 10 sa	econds)	7500	W
Peak Roundtrip Efficiency		94.5	%
Warranty ⁽²⁾		10	Years
Voltage Range	•	350 - 450	Vdc
Max Continues Output Curre	ent	14.3	A
Max Short Circuit Current / E	Duration	1k/10	Adc/mse
ADDITIONAL FEATU	RES		
Compatible Inverters ⁽³⁾		SolarEdge Home Hub Inverters	
Batteries per Inverter ¹⁴		Up to 3	ĺ
Communication Interfaces		Wireless ⁽⁵⁾ and RS485	
STANDARD COMPLI	ANCE		
	Cell	UL 1642	
Certification	Cell Battery	UL 1973, UL 9540A, UL 9540, UN 38.3	
Emissions		FCC Part 15 Class B	
MECHANICAL SPECI	FICATIONS		200
Dimensions (W x H x D)		31.1 x 46.4 x 9.84 / 790 x 1179 x 250	in/mm
Weight		262 / 119	lb/kg
Mounting		Floor [®] or wall mount [©]	
Ambient Operating Tempera	ature Range ⁽⁸⁾	+14 to +122 / -10 to +50	°F/°C
Storage Temperature (limiter	d period) ³⁸	-22 to +140 / -30 to +60	°F/°C
Storage Temperature (Up to	12 months since shipment date)	+14 to +86 / -10 to +30	°F/°C
Enclosure Protection		IP55 / NEMA 3R - indoor and outdoor (water and dust protection)	
Maximum Altitude		6562 / 2000	ft/m
Cooling		Natural convection	
Noise (at 1m distance)		<25	dBA

(f) Charge/discharge power may differ according to temperature range.

2) For warranty octalis, see the <u>Solarticae Home Battery timised protect</u> writing.

3) For compatible invener information, see the <u>Solarticae Home Buttery timised protect</u> for not America datasheet and the <u>Solarticae Home Hub Inverter for North America Assembled in North</u>

(7) Wall mount installation requires hangles that should be purchased separately. See the Accessories P/N table below

(7) Was in the foliage Home Battery 400V must be installed in a location where the ambient temperature falls between +32°F to +104°F for no less than 95% of the warrancy period and between +14°F to +122°F, the rest of the period. For details, see the SolarEdge Home Battery limited product warranty. (9) For details, see the SolarEdge Home Battery 400V Transportation and Storage Guidelines application note

SolarEdge Home Battery – Accessories (purchased separately)					
ACCESSORY	P/N				
Floor stand	IAC-RBAT-FLRSTD-01				
Branch connector set (includes 10 pairs of DC + and DC - connectors) Required for installations with multiple SolarEdge Home Battery batteries with a single inverter	IAC-RBAT-USYCBL-01				
Handles	IAC-RBAT-HANDLE-01				

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GOGENESIS SOLAR

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DC SIZE: 10.200 KW DC AC SIZE: 5,760 KW AC A

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SolarEdge Home **Backup Interface**

For North America

BI-E / BI-N



Backup Interface for Flexible Backup

- Automatically provides backup power to home loads in the event of grid interruption
- ▼ Full flexibility in which loads to back up the entire home or selected loads
- Scalable solution to support higher power and higher capacity
- Built-in Auto Transformer that supports 5kW of
- Built-in PCS certified* Energy Meter readies the Backup Interface to be part of the Busbar Current
- Seamless integration with the SolarEdge Home Hub Inverter to manage and monitor both PV generation and energy storage
- Generator connection support
- ** Only applicable to Backup Interface with part number BI-xxxxx-03

solaredge.com

solaredge

/ SolarEdge Home Backup Interface For North America

BI-E / BI-N

Applicable to Backup Interface with Part Number	BI-xxxxx-02 / Bi	-xxxxx-03	
Model	BI-E	BI-N	Units
INPUT FROM GRID			
AC Current Input	200		A
AC Output Voltage (Nominal)	240		Vac
AC Output Voltage Range	211 = 26	\$	Vac
AC Frequency (Nominal)	60		Hz
AC Frequency Range	59.3 - 60	5	Hz
Microgrid Interconnection Device Rated Current	200		A
Service Side AC Main Circuit Breaker Rated Current	200	N/A	A
Service Side AC Main Circuit Breaker Interrupt Current	10,000	N/A	Α.
Grid Disconnection Switchover Time	<100		ms
OUTPUT TO MAIN DISTRIBUTION PANEL			- 25
Maximum AC Current Output	200		A
AC L-L Output Voltage (Nominal)	240		Vac
AC L-L Output Voltage Range	211 – 26	\$	Vac
AC Frequency (Nominal)	60		Hz
AC Frequency Range	59.3 - 60	5	Hz
Maximum Inverters AC Current Output in Backup Operation	144		A
Imbalance Compensation in Backup Operation	5000		W
AC L-N Output Voltage in Backup (Nominal)	120		V
AC L-N Output Voltage Range in Backup	105 – 132		V
AC Frequency Range in Backup	55 – 65		Hz
INPUT FROM INVERTER			
Number of Inverter Inputs	Up to 3		N
Maximum Rated AC Power in On-Grid and Backup Operation	11,400		W
Maximum Continuous Current in On-Grid and Backup Operation	48		A
Factory Installed Inverter Input AC Circuit Breaker	40/63 ⁿ		Λ.
Upgradability	Up to 3 x 40A/6	3A ^{și} ÇB	
GENERATOR			
Maximum Rated AC Power	22,500		W
Maximum Continuous Input Current	94		Aac
Dry Contact Switch Voltage Rating	250 / 30)	Vac / Vo
Dry Contact Switch Current Rating	5		A
2-wire Start Switch	Yes		
ADDITIONAL FEATURES			
Installation Type	Suitable for use as service equipment	For main lug only	
Number of Communication Inputs	2		
Communication	RS485		
PCS Certified Energy Meter (for Import/Export)®	1% accuracy		
Manual Control Over Microgrid Interconrection Device	Yes		

/ SolarEdge Home Backup Interface For North America

BI-E/BI-N

Applicable to Backup Interface with Part Number	BI-xxxxx-02	/ BI-xxxxx-03	
Model	BI-E	BI-N	Units
STANDARD COMPLIANCE			
C-Feb.	UL1741; CSA	22.2 NO. 107	
Safety	UL869A	N/A	
Emissions	FCC Part	15 Class B	
INSTALLATION SPECIFICATIONS			
Supported Inverters	StorEdge Single Phase Inverter; SolarEdge Home Hub Inverter		
AC from Grid Conduit Size / AWG Range	2" conduit / 4 – 4/0 AWG		
AC to Loads Conduit Size / AWG Range	2" conduit / 4 – 4/0 AWG		
AC Inverter Conduit Size / AWG Range	1" canduit / 14 – 4 AWG		
AC Generator Input Conduit Size / AWG Range	1" concluit / 8 – 3 AWG		
Communication Conduit Size / AWG Range	3/4" conduit / 24 – 10 AWG		
Weight	73 / 33		
Cooling	Fan (user replaceable)		
Noise	< 50		dBA
Operating Temperature Range	(-) 40 to (+) 122 / (-) 40 to (+) 50		
Protection Rating	NEMA 3R; IP44		
Dimensions (H v W v D)	20 59 v 13 88 v 8 62 / 523 5 v 352 5 v 219 in		





GOGENESIS SOLAR

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DC SIZE: 10.200 KW DC AC SIZE: 5,760 KW AC A

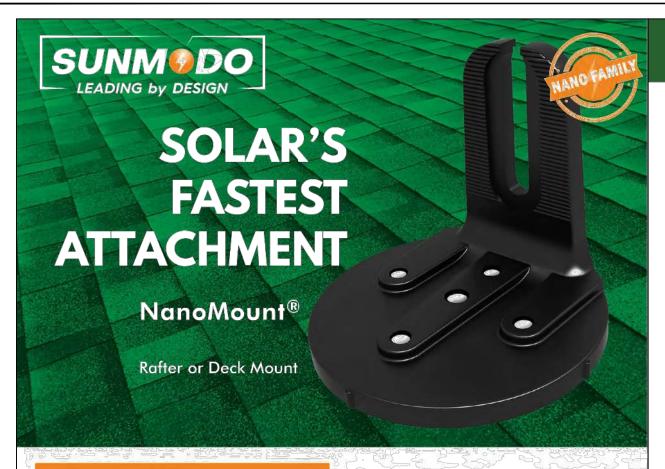
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Damaging roof shingles used to be one of solar installer's worst challenges.

Now, the easy, affordable solution is NanoMount®, SunModo's new and improved patented solar mounting innovation.

The mount eliminates the need for lifting shingles and dramatically reduces the installation time.

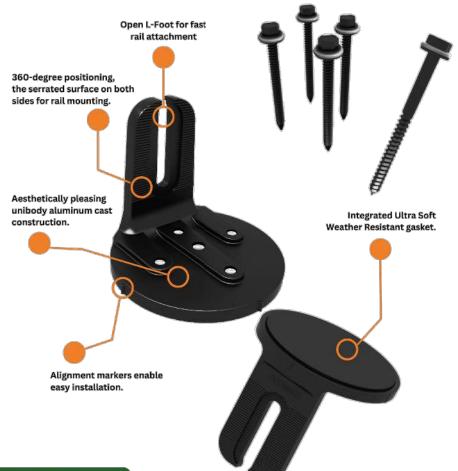
The NanoMount® Advantage

- ✓ The fastest roof attachment in solar.
- Versatile mounting options including Deck or Rafter mount.
- Eliminates the need to lift shingles and prevents damage to shingles.
- ✓ High-Velocity Hurricane Zone Approved - Passed TAS 100 (a) Wind-Driven Rain Test.
- All materials are compatible with asphalt shingles and single-ply roof membranes.

Key Features of NanoMount®



4 Deck Screws for Deck Mount or 1 Lag Bolt for Rafter Mount



Technical Data

Application	Residential roof coverings, commercial single-ply roof membranes	
Material	High grade aluminum, 304 stainless steel hardware	
Finish	Black powder coating	
Roof Attachment	Rafter and decking	
Structural integrity	IBC and IRC Compliant	
Warranty	25 years	

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SunModo introduces the SMR Pitched Roof System, the best value pitched roof mounting system on the market.

With fast and easy Pop-On Clamps and L-Foot adaptors, professional installers can mount, adjust, and secure PV panels with a single tool.

Whether rafter or deck, portrait or landscape, the SMR System is the ideal solution for your solar installation. Save money on materials and installation time.

The SMR System Advantage

- ✓ The best value, best performing rail system on the market
- ✓ Lag-to-Panel single tool installation
- ✓ Pop-On universal clamps make installation fast, reliable and flexible
- ✓ A full range of roof attachments to meet every need
- ✓ Fastest install and lowest cost

Key Features of the SMR System





The SMR System represents a huge leap in racking technology.

Optimized design makes the SMR Rails not only the lightest but also the strongest rails on the market. One tool assembly and Pop-On technology allow fast and worry-free installation.

The cost and performance cannot be beaten.

Clamps & Grounding



Mid Clamp

The Bonding Pop-On Universal Mid Clamps accommodate PV module frame heights ranging from 30mm to 48mm. The fastest installing Mid Clamps on the market.



L Foot Adaptor

Fast and easy Pop-On L-Foot Adaptor speeds installation and eliminates old-fashioned T-Bolts. Install fast with full confidence in every attachment.



End Clamp

End Clamps are adjustable for different module frame heights and provide fast and secure attachment of modules.



Rail Splice

Structural bonding splice with fast and easy single bolt installation



Wire Management Clip

The clip attaches to the channel on the SMR rail to provide a neat and effective solution for PV wire management.



Grounding Lug

The Lug provides proper grounding of the PV System

Technical Data

Technical Data	
Application	Pitched Roof
Roof Type Composition shingle, Metal and Tile	
Material High grade aluminum and 304 stainless steel hardware	
PV Modules Compatible with all common module types	
Module Orientation	Portrait and landscape
Roof Attachment	Rafter and decking
Structural Integrity	IBC compliant, stamped engineering letters available
Certificate	UL 2703 listed by ETL
Warranty	25 years

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