

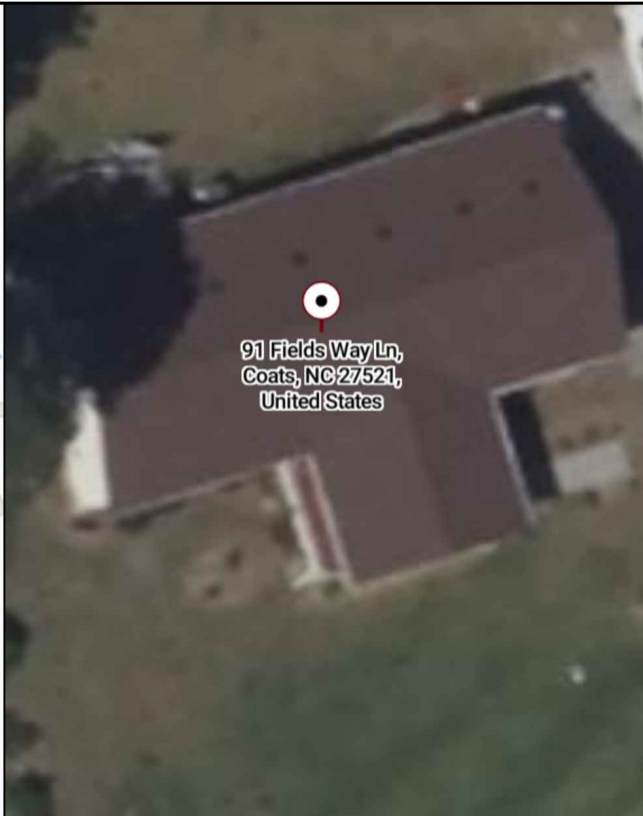
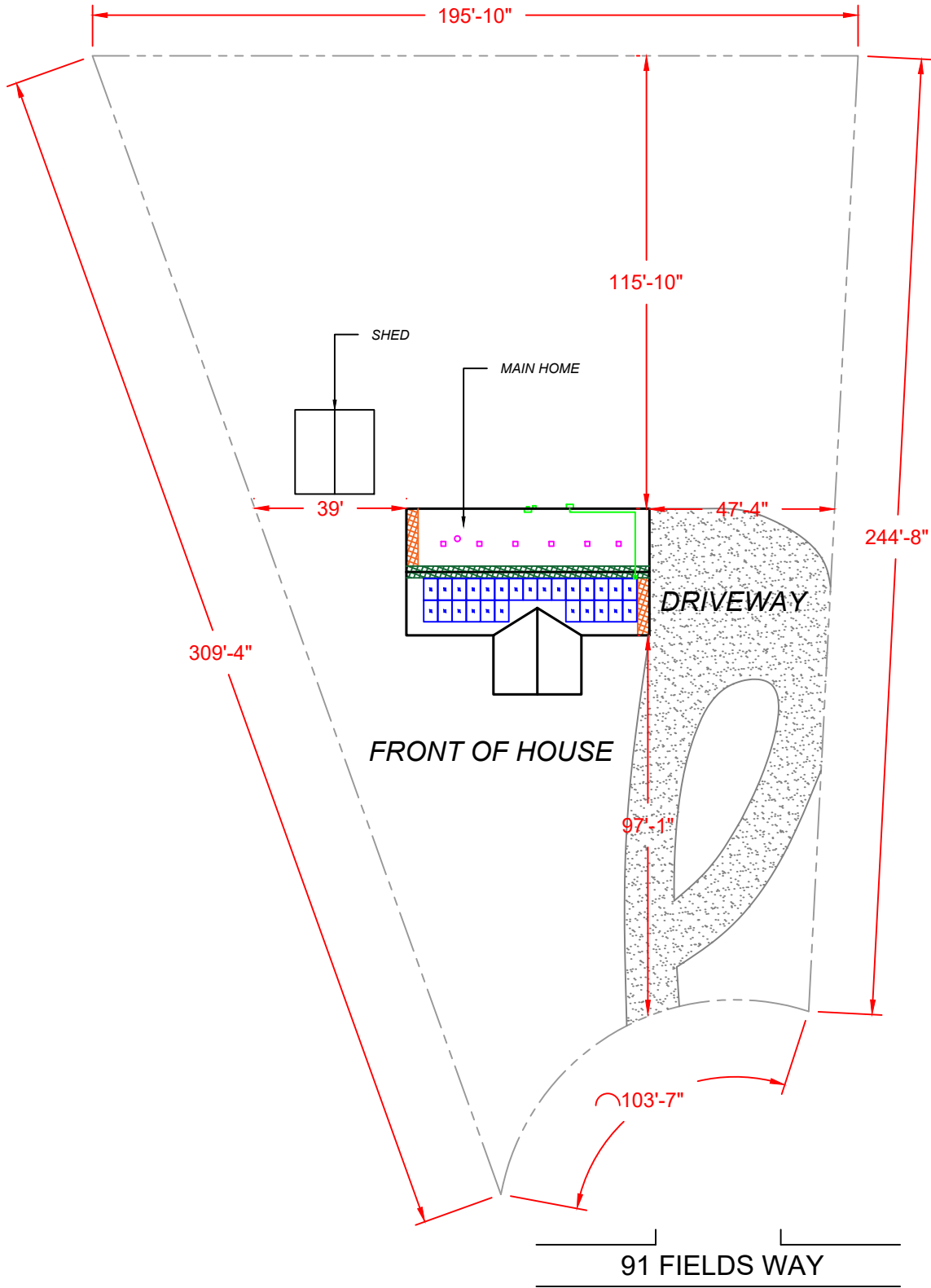


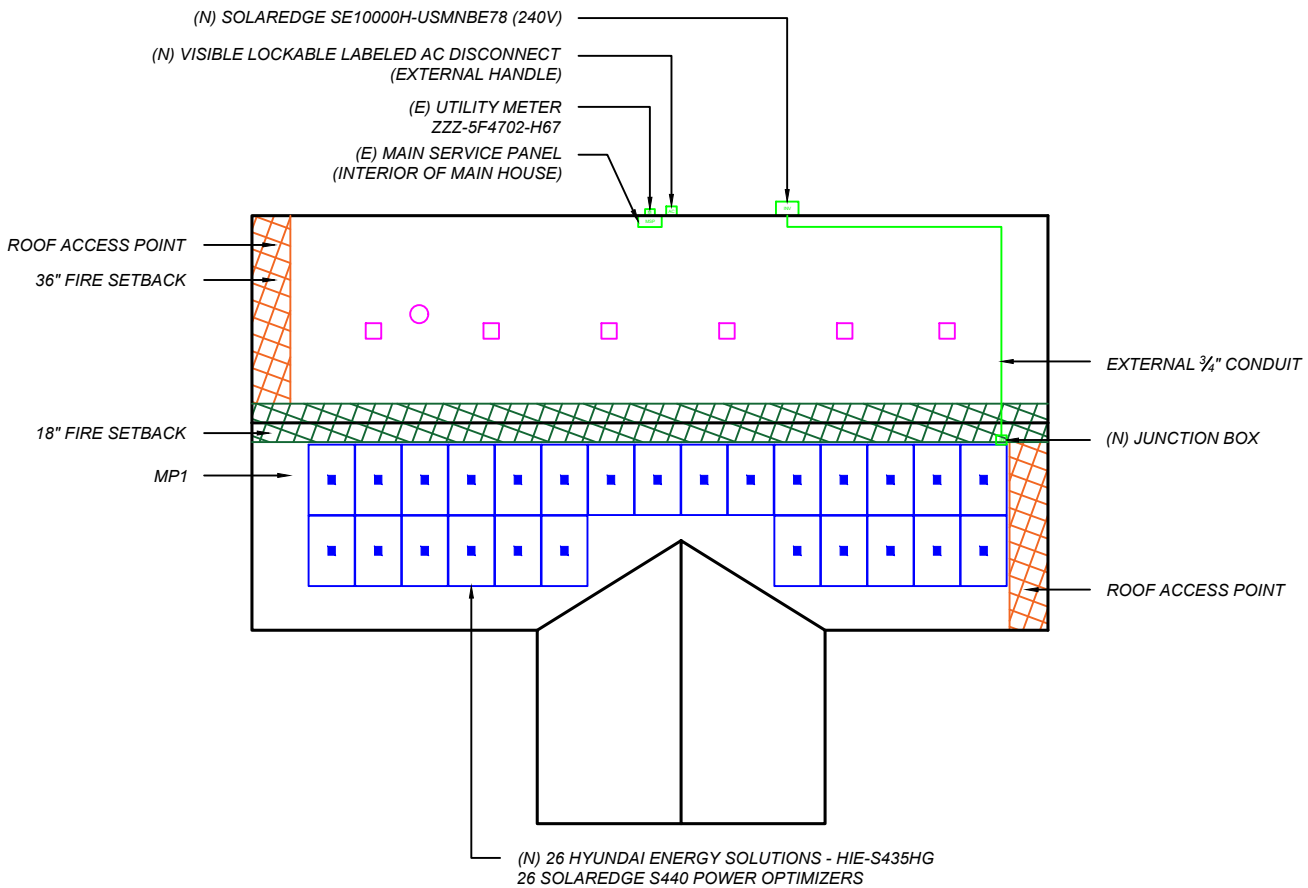
VICINITY MAP		AERIAL MAP		SHEET INDEX		SYSTEM INFORMATION		<div></div> <div>MJAK COMPANY 8416 US HWY 158, STOKESDALE, NC 27357 (336) 317-0114 www.mjakcompany.com LICENSE NO : L.18856</div>	
				PV-01 - TITLE SHEET		SYSTEM SIZE	11.310 kW DC / 10.000 kW AC		
				PV-02 - SITE PLAN		PV MODULES	26 HYUNDAI ENERGY SOLUTIONS - HIE-S435HG		
				PV-03 - ROOF PLAN		INVERTERS	1 SOLAREDGE SE10000H-USMNB78		
				PV-04 - MOUNTING DETAIL		OPTIMIZERS	26 SOLAREDGE S440 POWER OPTIMIZERS		
				PV-05 - ELECTRICAL DIAGRAM		MOUNTING	PEGASUS INSTA FLASH 2		
				PV-06 - ELECTRICAL EQUIPMENT AND NOTES		RACKING	PEGASUS RAIL SYSTEM		
				PV-07 - LABELING					

ROOF DETAILS				
MOUNTING PLANE	MODULES	ARRAY HEIGHT	ROOF TILT	AZIMUTH
1	26	1-STORY	28	165

SITE PLAN - SCALE:1" = 40'



CLOSE UP VIEW - SCALE:1" = 15'



LEGEND:

- 3' SETBACK
- 30" SETBACK
- 18" SETBACK
- MAIN SERVICE PANEL
- AC DISCONNECT
- INVERTER
- LOAD CENTER
- JUNCTION BOX



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PROJECT INFORMATION

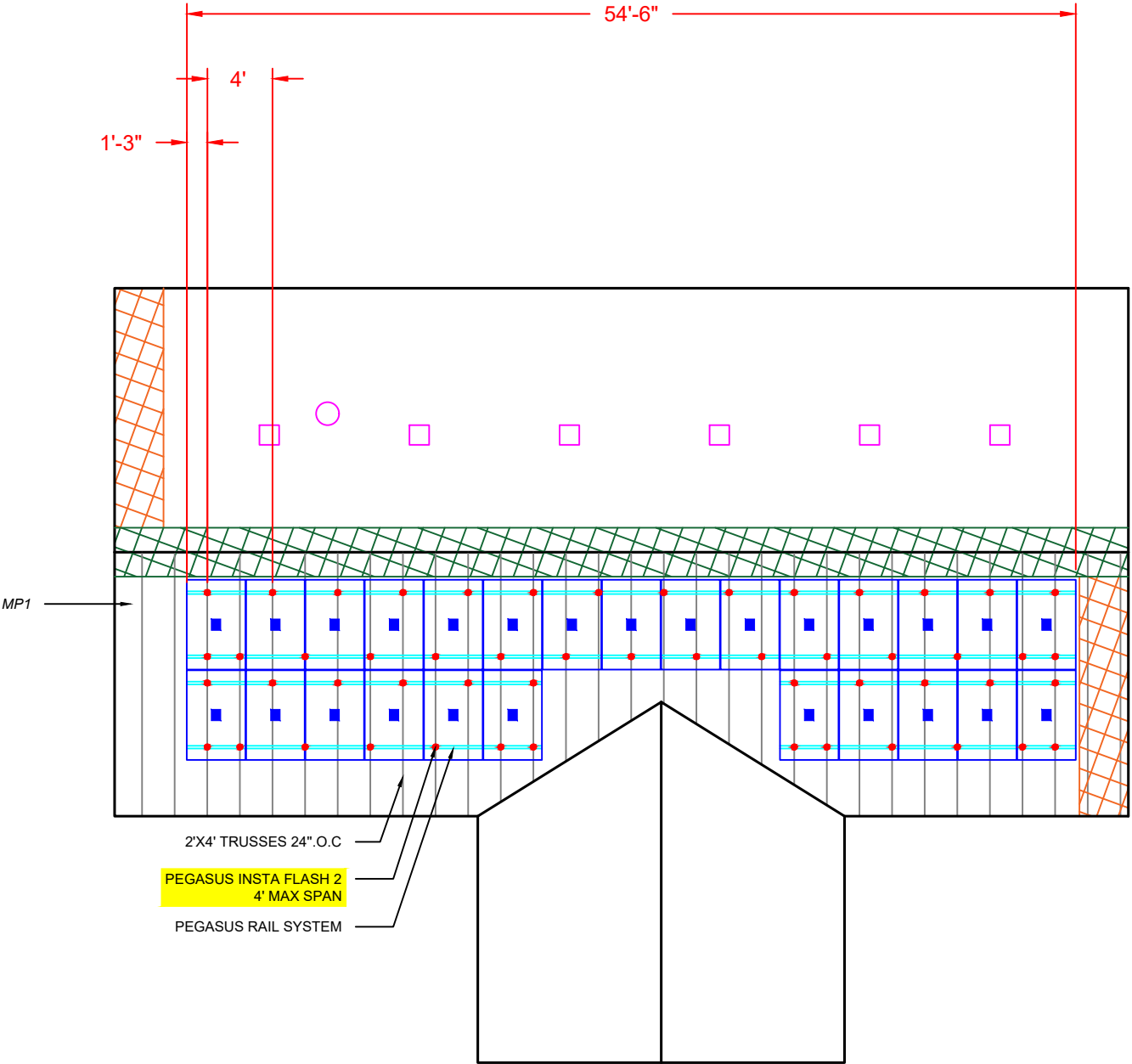
NAME:	FELIX MEJIA
ADDRESS:	91 FIELDS WAY
CITY:	COATS
STATE, ZIP:	NC 27521
AHJ:	HARNETT COUNTY
APN#:	71610001513
DRAWN BY:	KGONZAGA Kgonzaga
DATE:	26/08/2025

CAPHORA  
DESIGN AND ENGINEERING

ELEVATION  
DETAIL PV - 02.1

COMPOSITE SHINGLE

APPROXIMATE DEAD LOAD FIGURES	
PANEL	
WEIGHT (pounds)	48.06 LBS
WEIGHT (pounds) / SQ FT	2.14 PSF
RACKING	
WEIGHT (pounds / lin. ft.)	4.8 LBS
WEIGHT (pounds) / SQ FT	2.1 PSF
TOTAL LBS PER SQ FT	4.24 PSF



AZIMUTH AND SLOPE

MOUNTING PLANE	MP1
MODULE COUNT	26
AZIMUTH	165
TILT (Degrees)	28

R324.6.2 - PROVING ARRAYS TAKE LESS THAN 33% OF TOTAL ROOF AREA.WHEN THE ARRAYS TAKE LESS THAN 33% WE CAN JUSTIFY AN 18" SETBACK ON BOTH SIDES OF THE RIDGE. WHEN IT TAKES MORE THAN 33% OF THE ROOF AREA WE MUST USE A 3' SETBACK ON BOTH SIDES OF THE RIDGE.

TOTAL ROOF AREA:  
2353 sqft

AREA OF ARRAYS:  
3'-7" x 6'-3" ( PANEL DIMENSIONS)  
43.15" x 74.76" = 22.41 <sup>sqft</sup>/<sub>panel</sub>  
22.41 <sup>sqft</sup>/<sub>panel</sub> X 26 panels = **582.66** sqft  
(TOTAL PANEL AREA)

PERCENTAGE OF TOTAL ROOF AREA:  
(**582.66** sqft / 2353 sqft)(100)= **24.76%**

THE PANELS USE **24.76%** OF THE TOTAL ROOF AREA



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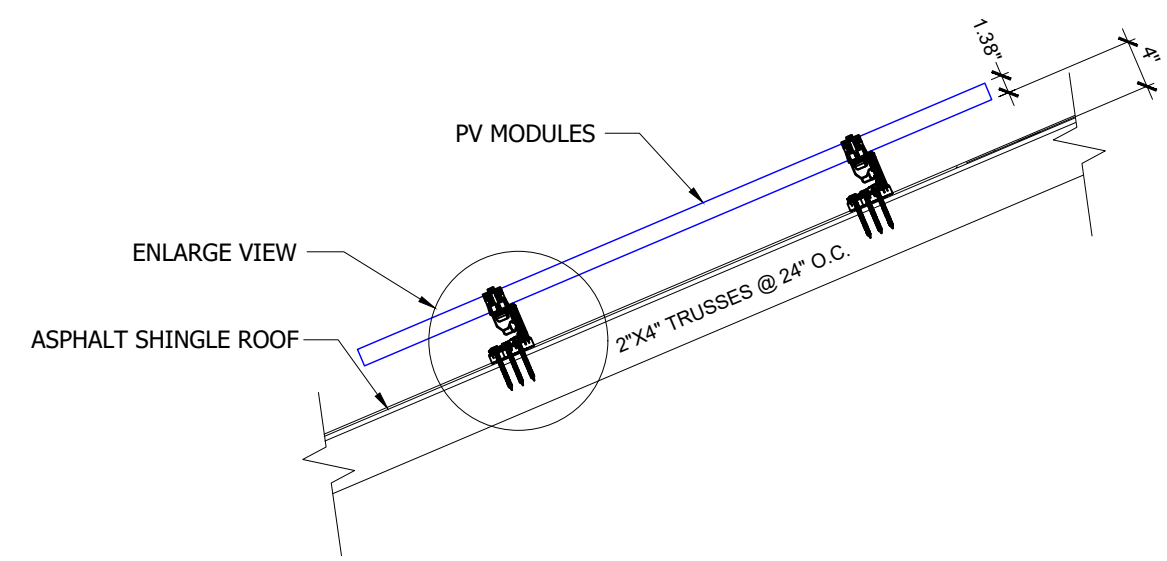
CAPHORA  
DESIGN AND ENGINEERING

ROOF LAYOUT  
PV - 03

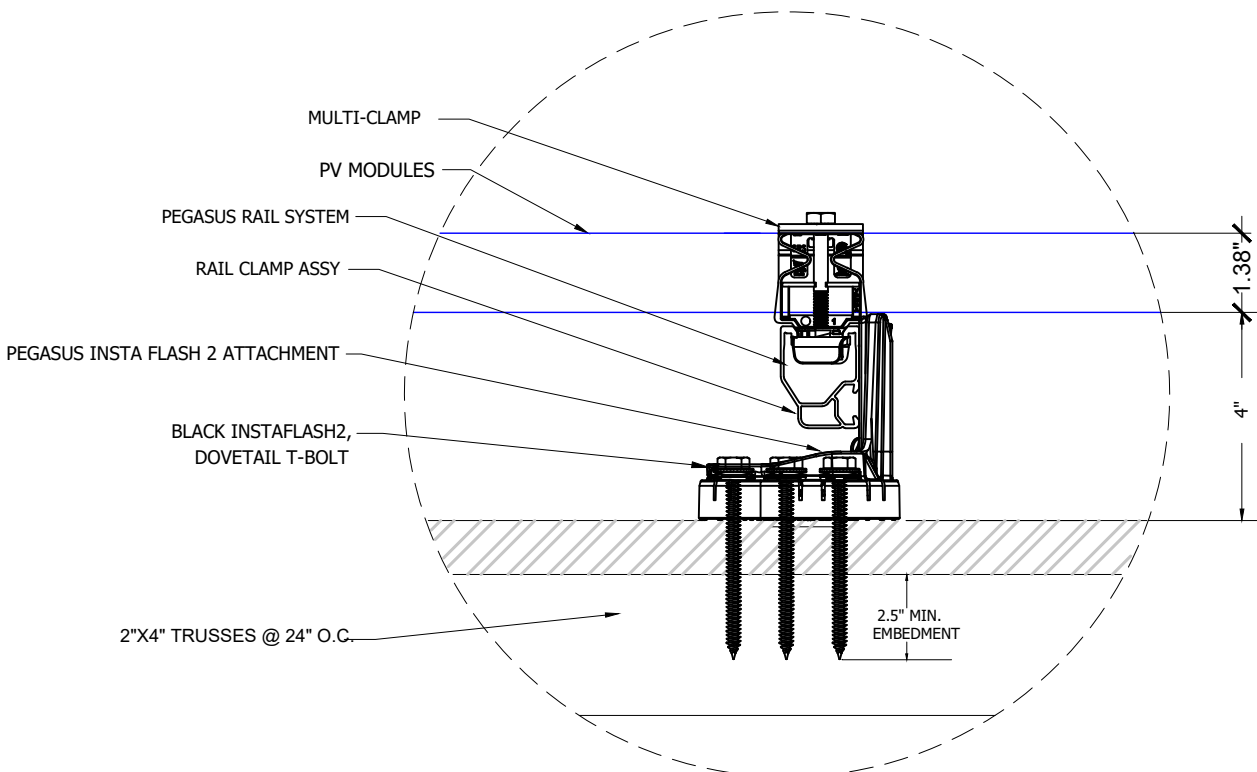


Scale:1" = 10'

COMPOSITE SHINGLE



ATTACHMENT DETAIL  
SCALE: NTS



ATTACHMENT DETAIL(ENLARGE VIEW)  
SCALE: NTS

NOTE: ACTUAL ROOF CONDITIONS AND TRUSSES (OR SEAM) LOCATIONS MAY CHANGE. PLEASE INSTALL PER MANUFACTURER(S) INSTALLATION GUIDELINES AND ENGINEERED SPANS FOR ATTACHMENTS



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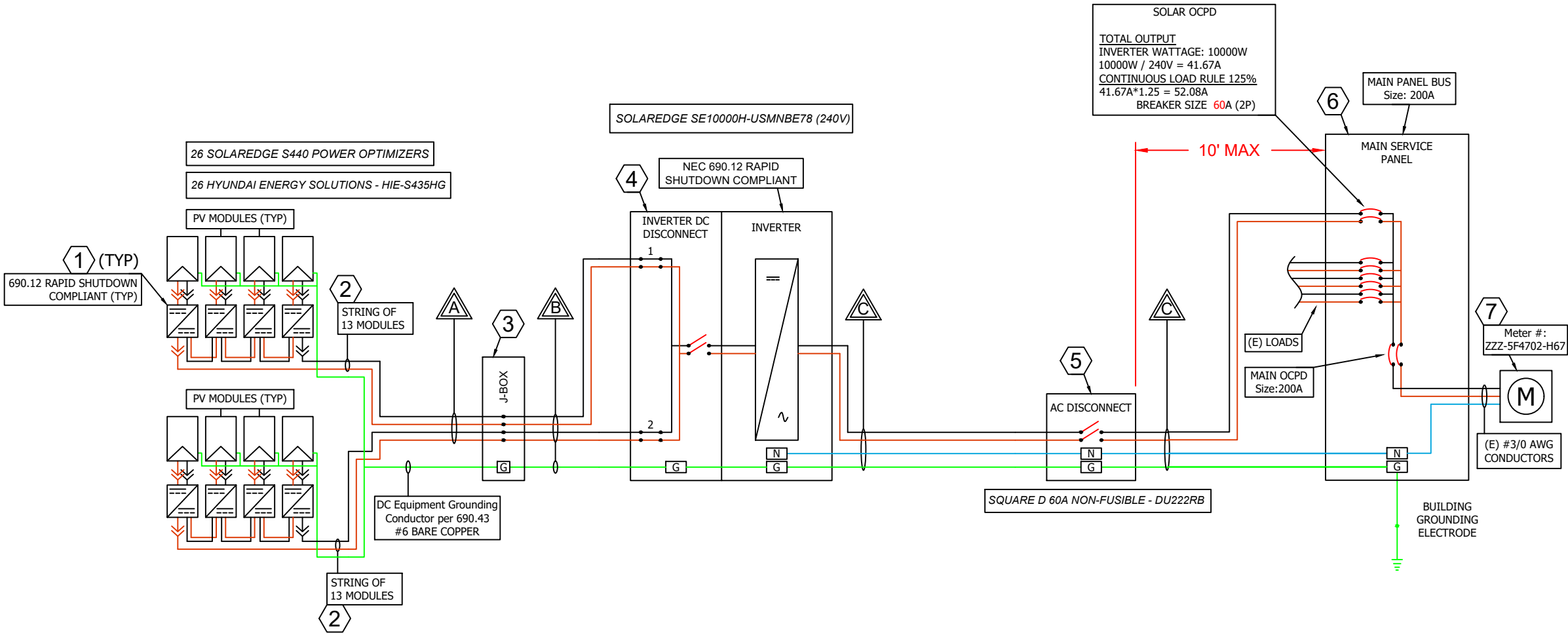
MOUNTING  
DETAIL PV - 04

OBJ.	DESCRIPTION	COMPONENT	ELEC. TAG	CONDUCTOR	CONDUIT CONDUCTOR COUNT ADJ FACTOR		GROUNDING WIRE SIZE = MAX OCPD (PROTECTED UNLESS STATED)	CONDUIT SIZE	CONDUCTOR TEMPERATURE DERATING			ORIG. TEMP. AMPS * CT DER.	CORRECTED AMPACITY
				(NEUTRAL SIZED THE SAME AS CURRENT CARRYING CONDUCTORS)	# OF CURRENT CARRYING CONDUCTORS	AMP CORR 310.15(C)(1)			HEIGHT ABOVE ROOF	AMBIENT TEMP (°C)	AMPACITY CORRECTION 310.15(B)(2)		
①	(N) BRANCH OF POWER OPTIMIZERS IN SERIES	26 SOLAREEDGE S440 POWER OPTIMIZERS	A B C	90°C RATED THWN-2 @ 30°C PER 310.16									
②	(N) SOLAR PV MODULES	26 HYUNDAI ENERGY SOLUTIONS - HIE-S435HG											
③	(N) J-BOX	JUNCTION BOX		#12 AWG (90°C Cu) = 30A	N/A	N/A	#6 AWG (Cu)	FREE AIR	>7/8"	35°C	N/A	N/A	N/A
④	(N) INVERTER	1 SOLAREEDGE SE10000H-USMNBET8 (240V)		#10 AWG (90°C Cu) = 40A	4 CONDUCTORS	.8	#8 AWG (Cu)	3/4" EMT	>7/8"	35°C	.96	40A * .8 *.96	30.7A
⑤	(N) AC DISCONNECT	SQUARE D 60A NON-FUSIBLE - DU222RB		#6 AWG (90°C Cu) = 75A	2 CONDUCTORS	1	#8 AWG (Cu)	3/4" EMT	N/A	35°C	.96	75A * 1 *.96	72.0A
⑥	(E) MAIN ELECTRICAL SERVICE PANEL	200A RATED, 240V, 2P, WITH 200A MAIN BREAKER											
⑦	(E) DUKE ENERGY UTILITY METER	DUKE ENERGY UTILITY METER #: ZZZ-5F4702-H67											

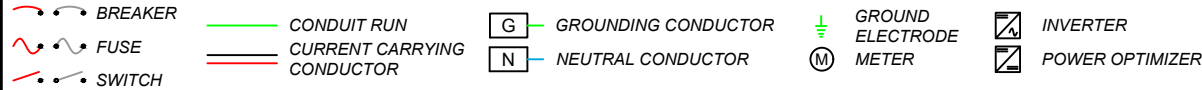


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THE SYSTEM WILL BE CONTROLLED BY AN ENERGY MANAGEMENT SYSTEM (EMS) UTILIZING A POWER CONTROL SYSTEM (PCS) IN ACCORDANCE WITH NEC 2023, SECTION 705.13. CONTROL WILL BE ELECTRONIC USING SOLAREEDGE BUSBAR CURRENT MANAGEMENT, LIMITING THE TOTAL CURRENT ON THE 200A BUSBAR TO 80% (160A).



LEGENDS:



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CAPHORA DESIGN AND ENGINEERING	
ELECTRICAL DIAGRAM PV - 05	



SOLAR MODULE SPECIFICATIONS		INVERTER SPECIFICATIONS		OPTIMIZER SPECIFICATIONS		AMBIENT TEMPERATURE SPECIFICATIONS	
MANUFACTURER / MODEL #	HYUNDAI SOLAR: HIE-S435HG	MANUFACTURER / MODEL #	SOLAREGE SE10000H	MANUFACTURER / MODEL #	SOLAREGE S440	RECORD LOW TEMP	1°C
VMP	36.2V	POWER RATING	10000W	DC INPUT POWER	440W	AMBIENT TEMP (HIGH TEMP 2% AVE.)	35°C
IMP	12.02A	CONT. OUTPUT CURRENT	42.0A	DC MAX INPUT VOLTAGE	60V	DISTANCE ABOVE ROOF (0.5")	57°C
VOC	43.6V	MAX. INPUT CURRENT	27.0A	DC MAX INPUT CURRENT	14.55	CONDUIT HEIGHT	7 <sup>o</sup> / <sub>8</sub>
ISC	12.79A	MAX DC VOLTAGE	480V	DC MAX OUTPUT CURRENT	15A	CONDUCTOR TEMPERATURE RATE	90°C
TEMP. COEFF. VOC	-0.27% / °C						
MODULE DIMENSION	74.76" x 43.15"						

MAIN SERVICE PANEL ALLOWABLE BACKFEED	
PANEL RATING	200
BUS RATING	200
MAIN BREAKER RATING	200
EMS BUSBAR LIMIT SETTING ≥ PV BREAKER RATING 160A ≥ 60A	

THE SYSTEM WILL BE CONTROLLED BY AN ENERGY MANAGEMENT SYSTEM (EMS) UTILIZING A POWER CONTROL SYSTEM (PCS) IN ACCORDANCE WITH NEC 2023, SECTION 705.13. CONTROL WILL BE ELECTRONIC USING SOLAREGE BUSBAR CURRENT MANAGEMENT, LIMITING THE TOTAL CURRENT ON THE 200A BUSBAR TO 80% (160A).

ELECTRICAL NOTES

- PHOTOVOLTAIC MODULES AND INVERTERS USED IN THE SYSTEM SHALL BE LISTED AND LABELED FOR THEIR INTENDED USE AS PER CEC 690.4 AND 690.5, ENSURING COMPLIANCE WITH INDUSTRY STANDARDS AND SAFETY REGULATIONS.
- ALL EQUIPMENT SHALL MEET THE MINIMUM CLEARANCES AS REQUIRED BY CEC 110.26
- JUNCTION BOXES AND PULL BOXES ARE PERMITTED TO INSTALL UNDER PV MODULES PER CEC 690.34
- ALL COMPONENTS ARE LISTED FOR THEIR PURPOSE AND RATED FOR OUTDOOR USAGE WHEN APPROPRIATE
- WIRING METHODS SHALL FOLLOW CEC GUIDELINES, INCLUDING PROPER RACEWAY SELECTION, CONDUIT SIZING, AND SEPARATION FROM OTHER CIRCUITS TO PREVENT DAMAGE AND MAINTAIN CIRCUIT INTEGRITY. CONDUIT AND WIRE SPECIFICATIONS ARE BASED ON MINIMUM CODE REQUIREMENTS AND ARE NOT MEANT TO LIMIT UP-SIZING.
- VOLTAGE DROP IS LIMITED TO 2%
- DC WIRING LIMITED TO MODULE FOOTPRINT. MICORINVERTER WIRING SYSTEM SHALL BE LOCATED AND SECURED UNDER THE ARRAY WITH SUITABLE WIRING CLIPS
- GROUNDING AND BONDING OF PV SYSTEMS SHALL COMPLY WITH CEC REQUIREMENTS. THIS INCLUDES GROUNDING OF METAL COMPONENTS, GROUNDING ELECTRODES, AND PROPER BONDING TO MINIMIZE ELECTRICAL HAZARDS.

- DISCONNECTING SWITCHES SHALL BE WIRED SUCH THAT WHEN THE SWITCH IS OPENED THE CONDUCTORS REMAINING ENERGIZED ARE CONNECTED TO THE TERMINALS MARKED "LINE SIDE" (TYPICALLY UPPER TERMINALS)
- EMERGENCY DISCONNECTS SHALL BE INSTALLED IN READILY ACCESSIBLE LOCATIONS, ENSURING SAFE AND EFFICIENT SHUTDOWN IN CASE OF EMERGENCIES.
- RAPID SHUTDOWN REQUIREMENTS SHALL BE MET, ENSURING THAT THE PV SYSTEM CAN BE DE-ENERGIZED TO A SPECIFIED VOLTAGE WITHIN A CERTAIN TIME FRAME, FACILITATING FIREFIGHTER SAFETY DURING EMERGENCIES.
- PROPERLY SIZED OVERCURRENT PROTECTION DEVICES SHALL BE INSTALLED TO PROTECT CONDUCTORS AND COMPONENTS. COORDINATION WITH MODULE SHORT-CIRCUIT CURRENTS AND OVERCURRENT DEVICE RATINGS SHALL BE ENSURED.
- SOURCE AND OUTPUT CIRCUITS SHALL BE APPROPRIATELY SIZED AND PROTECTED, WITH PROPER INSULATION AND LABELING TO PREVENT ANY RISK OF ELECTRICAL HAZARDS.
- LOAD-SIDE INTERCONNECTION SHALL BE IN ACCORDANCE WITH CEC 705.12(B)
- SUPPLY SIDE TAP INTERCONNECTION ACCORDING TO CEC 705.12(A) WITH SERVICE ENTRANCE CONDUCTORS IN ACCORDANCE WITH CEC 230.42



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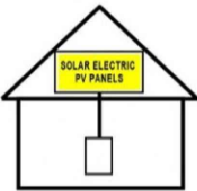
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CAPHORA  
DESIGN AND ENGINEERING

ELECTRICAL  
EQUIPMENT NOTES  
PV - 06

SOLAR PV SYSTEM EQUIPPED  
WITH RAPID SHUTDOWN

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



**LABEL 1**  
AT RAPID SHUTDOWN SYSTEM  
[NEC 690.56(C)]

⚠ CAUTION

PHOTOVOLTAIC SYSTEM  
CIRCUIT IS BACKFED

**LABEL 2**  
AT MAIN SERVICE PANEL, PULL BOXES  
[NEC 705.12(B)(3)]

⚠ WARNING

POWER SOURCE OUTPUT  
CONNECTION - DO NOT RELOCATE  
THIS OVERCURRENT DEVICE

**LABEL 3**  
AT POINT OF INTERCONNECTION  
OVERCURRENT DEVICE  
[NEC 705.12(B)(2)(3)]

⚠ WARNING

DUAL POWER SOURCES

SECOND SOURCE IS  
PHOTOVOLTAIC SYSTEM

**LABEL 4**  
AT POINT INTERACTION; LABEL, SUCH  
AS LABEL 5 OR LABEL 6 MUST IDENTIFY  
PHOTOVOLTAIC SYSTEM  
[NEC 705.12(B)(4)]

PHOTOVOLTAIC  
AC DISCONNECT

RATED AC OUTPUT CURRENT: 41.67A  
NOMINAL OPERATING AC VOLTAGE: 240V

**LABEL 5**  
AT EACH AC DISCONNECTING MEANS  
[NEC 690.13(B) AND 690.54]

INTERACTIVE PHOTOVOLTAIC SYSTEM  
CONNECTED

**LABEL 6**  
AT UTILITY METER [NEC 690.56(B)]

⚠ WARNING

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

**LABEL 7**  
AT EACH DISCONNECTING MEANS FOR PHOTOVOLTAIC  
EQUIPMENT  
[NEC 690.13 AND 690.15]

RAPID SHUTDOWN SWITCH  
FOR SOLAR PV SYSTEM

**LABEL 8**  
AT RAPID SHUTDOWN SWITCH [NEC 690.56(C)(2)]

WARNING: PHOTOVOLTAIC  
POWER SOURCE

**LABEL 9**  
AT INTERIOR AND EXTERIOR DC CONDUIT EVERY 10 FT,  
AT EACH TURN, ABOVE AND BELOW PENETRATIONS, ON  
EVERY JB/PULL BOX CONTAINING DC CIRCUITS.  
PER CODE(S): [NEC: 690.31(D)(2)]

MAXIMUM DC VOLTAGE 480 VDC  
MAXIMUM CIRCUIT CURRENT 52.08 ADC  
MAX RATED OUTPUT CURRENT OF  
THE CHARGE CONTROLLER OR DC  
TO DC CONVERTER (IF INSTALLED) 15 ADC

**LABEL 10:**  
AT EACH DC DISCONNECTING MEANS  
PER CODE(S): CEC 690.53

SOLAREEDGE

THE MAXIMUM OPERATING CURRENT OF  
THIS SYSTEM MAY BE CONTROLLED  
ELECTRONICALLY. REFER TO  
MANUFACTURER'S INSTRUCTION FOR  
MORE INFORMATION.

WARNING

THIS SENSOR IS PART OF A POWER  
CONTROL SYSTEM.  
DO NOT REMOVE. REPLACE ONLY WITH  
SAME TYPE AND RATING.

PCS CONTROLLED  
CURRENT SETTING:

160 AMPS



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CAPHORA  
DESIGN AND ENGINEERING

LABELING  
PV - 07

**LABELING NOTES**  
1.1 LABELING REQUIREMENTS BASED ON THE NATIONAL ELECTRICAL CODE, INTERNATIONAL FIRE CODE 605.11, OSHA STANDARD 1910.145, ANSI Z535  
1.2 MATERIAL BASED ON THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.  
1.3 LABELS TO BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.  
1.4 LABELS TO BE A MINIMUM LETTER HEIGHT OF 3/8" AND PERMANENTLY AFFIXED.  
1.5 ALERTING WORDS TO BE COLOR CODED. "DANGER" WILL HAVE RED BACKGROUND; "WARNING" WILL HAVE ORANGE BACKGROUND; "CAUTION" WILL HAVE YELLOW BACKGROUND.[ANSI Z535]

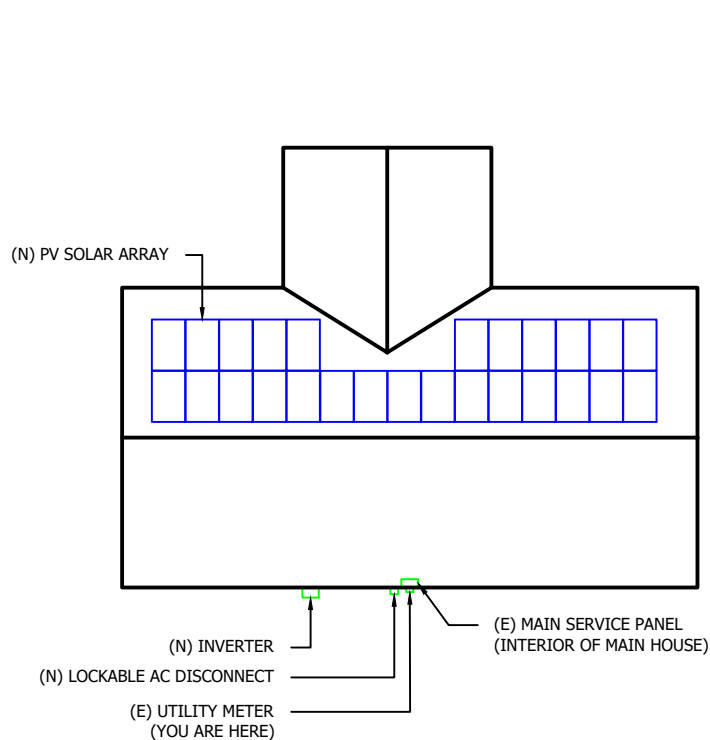
**DIRECTORY**  
PERMANENT PLACE OR DIRECTORY PROVIDING THE LOCATION OF THE SERVICE DISCONNECTING AND THE PHOTOVOLTAIC SYSTEM DISCONNECTING MEANS, IF NOT IN THE SAME LOCATION [NEC 690.56(B)] WHERE THE PV SYSTEMS ARE REMOTELY LOCATED FROM EACH OTHER, A DIRECTORY IN ACCORDANCE WITH 705.10 SHALL BE PROVIDED AT EACH PV SYSTEM DISCONNECTING. PV SYSTEM EQUIPMENT AND DISCONNECTING MEANS SHALL NOT BE INSTALLED IN BATHROOMS [NEC 690.4(D)(E)]

# CAUTION

## MULTIPLE SOURCES OF POWER

POWER TO THIS BUILDING IS SUPPLIED  
FROM THE FOLLOWING SOURCE(S) WITH  
DISCONNECTS LOCATED AS SHOWN.

91 FIELDS WAY





# HYUNDAI SOLAR MODULE

## HG SERIES

### G12 PERC Shingled

HiE-S430HG(FB) HiE-S435HG(FB)  
HiE-S440HG(FB)



Shingled  
Technology



For Both Residential  
& Commercial  
Applications



More Power  
Generation  
In Low Light



### G12 PERC Shingled

G12 PERC Shingled Technology provides ultra-high efficiency with better performance in low irradiation. Maximizes installation capacity in limited space.



### Mechanical Strength

Tempered glass and reinforced frame design withstand rigorous weather conditions such as heavy snow and strong wind.



### Reliable Warranty

Global brand with powerful financial strength provide reliable 25-year warranty. (Australia and Europe Only)



### UL / VDE Test Labs

Hyundai's R&D center is an accredited test laboratory of both UL and VDE.

## Hyundai's Warranty Provisions



- **25-Year Product Warranty**  
• On material and workmanship  
**Australia and Europe Only**



- **25-Year Performance Warranty**  
• Initial year: 98.0%  
• Linear warranty after second year: with 0.55%p annual degradation, 84.80% is guaranteed up to 25 years

## About Hyundai Energy Solutions Co., Ltd

Established in 1972, Hyundai Heavy Industries Group is one of the most trusted names in the heavy industries sector and is a Fortune 500 company. As a global leader and innovator, Hyundai Heavy Industries is committed to building a future growth engine by developing and investing heavily in the field of renewable energy.

As a core energy business entity of HHI, Hyundai Energy Solutions has strong pride in providing High-quality PV products to more than 3,000 customers worldwide.

## Certification



## Electrical Characteristics

		Mono-Crystalline Module (HiE-S__HG(FB))		
		430	435	440
Nominal Output (P <sub>mpp</sub> )	W	430	435	440
Open Circuit Voltage(V <sub>oc</sub> )	V	43.5	43.6	43.7
Short Circuit Voltage (I <sub>sc</sub> )	A	12.68	12.79	12.90
Voltage at P <sub>max</sub> (V <sub>mpp</sub> )	V	36.1	36.2	36.3
Cuurent at P <sub>max</sub> (I <sub>mp</sub> )	A	11.92	12.02	12.13
Module Efficiency	%	20.7	20.9	21.1
Cell Type	-	PERC Mono-Crystalline Silicon Shingled		
Maximum System Voltage	V	1,500		
Temperature Coefficiency of P <sub>max</sub>	%/°C	-0.34		
Temperature Coefficiency of V <sub>oc</sub>	%/°C	-0.27		
Temperature Coefficiency of I <sub>sc</sub>	%/°C	0.04		

\*All data at STC(Standard Test Conditions). Above data may be changed without prior notice.

\*Tolerance of P<sub>max</sub>:0~+5W.

\*Measuring uncertainty of power:±3%.

\* Performance deviation of V<sub>oc</sub> [V], I<sub>sc</sub> [A], V<sub>m</sub>[V] and I<sub>m</sub>[A]:±3%.

## Mechanical Characteristics

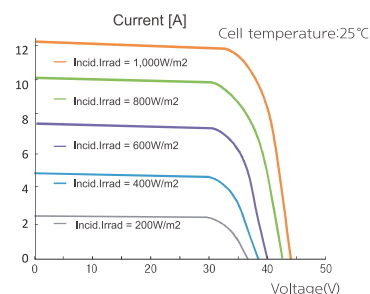
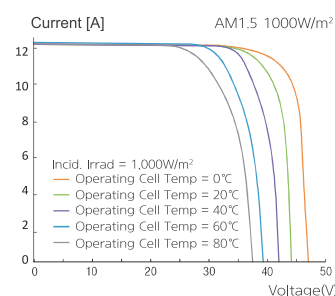
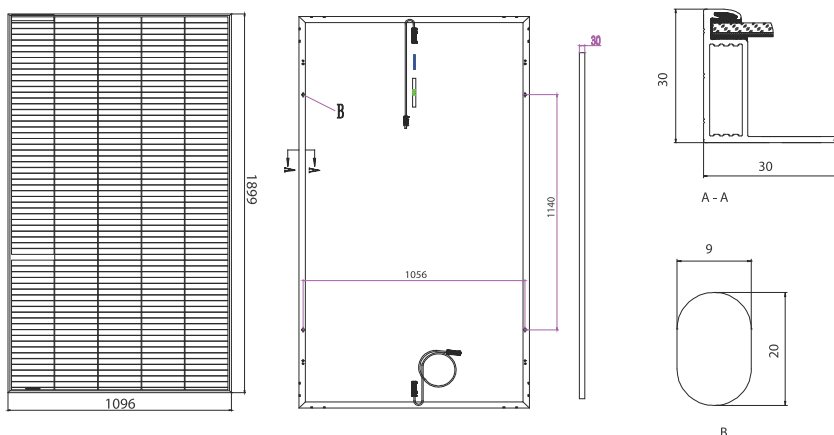
Dimensions	1,899 × 1,096 × 30 mm (L × W × H)		
Weight	21.8kg		
Solar Cells	320 Cells, PERC Mono-crystalline Shingled (210 × 210mm)		
Output Cables	4mm <sup>2</sup> ,+500mm/-1100mm(Vertical), +220mm/-180mm(Horizontal)	Connector	Stäubli : MC4-Evo2
Junction Box	IP68, TUV&UL, two diodes		
Construction	Front Glass: AR Coated tempered glass, 3.2mm Encapsulation: EVA (Ethylene-Vingl-Acetate)		
Frame	Anodized Aluminum		

## Installation Safety Guide

- Only qualified personnel should install or perform maintenance.
- Be aware of dangerous high DC voltage.
- Do not damage or scratch the rear surface of the module.
- Do not handle or install modules when they are wet.

Nominal Operating Cell Temperature	42.3°C ( ±2°C )
Operating Temperature	-40 ~ 85 °C
Maximum System Voltage	DC 1,500 / 1,000 (IEC)
Fire Rating	Class C
Series Fuse Rating [A]	25
Maximum Surface Load Capacity	Front 5,400 Pa Rear 2,400 Pa

## Module Diagram (Unit: mm)



Manufactured in China

**HYUNDAI**  
ENERGY SOLUTIONS

## SolarEdge Home Wave Inverter For North America

SE3000H-US / SE3800H-US / SE5000H-US / SE5700H-US /  
SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US



### Optimized installation with HD-Wave technology

- Specifically designed to work with power optimizers
- Record-breaking 99% weighted efficiency
- Quick and easy inverter commissioning directly from a smartphone using SolarEdge SetApp
- Fixed voltage inverter for longer strings
- Integrated arc fault protection and rapid shutdown for NEC 2014-2023 per articles 690.11 and 690.12
- UL1741 SA certified, for CPUC Rule 21 grid compliance
- Small, lightweight, and easy to install both outdoors or indoors
- Built-in module-level monitoring
- Optional: Faster installations with built-in consumption metering (1% accuracy) and production revenue grade metering (0.5% accuracy, ANSI C12.20)

# SolarEdge Home Wave Inverter

## For North America

SE3000H-US / SE3800H-US / SE5000H-US / SE5700H-US / SE6000H-US/ SE7600H-US

Applicable to inverters with part number	SEXXXHX-XXXXXBXX4						Units
	SE3000H-US	SE3800H-US	SE5000H-US	SE5700H-US	SE6000H-US	SE7600H-US	
OUTPUT							
Rated AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	5760 @ 240V 5000 @ 208V	6000 @ 240V 5000 @ 208V	7600	VA
Maximum AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	5760 @ 240V 5000 @ 208V	6000 @ 240V 5000 @ 208V	7600	VA
AC Output Voltage Min. – Nom. – Max. (211 – 240 – 264)	✓	✓	✓	✓	✓	✓	Vac
AC Output Voltage Min. – Nom. – Max. (183 – 208 – 229)	-	✓	-	✓	✓	-	Vac
AC Frequency (Nominal)	59.3 – 60 – 60.5 <sup>(1)</sup>						Hz
Maximum Continuous Output Current @240V	12.5	16	21	24	25	32	A
Maximum Continuous Output Current @208V	-	16	-	24	24	-	A
Power Factor	1, Adjustable – 0.85 to 0.85						
GFDI Threshold	1						A
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes						
INPUT							
Maximum DC Power @240V	4650	5900	7750	8900	9300	11800	W
Maximum DC Power @208V	-	5100	-	7750	7750	-	W
Transformer-less, Ungrounded	Yes						
Maximum Input Voltage	480						Vdc
Nominal DC Input Voltage	380						Vdc
Maximum Input Current @240V <sup>(2)</sup>	8.5	10.5	13.5	16	16.5	20	Adc
Maximum Input Current @208V <sup>(2)</sup>	-	9	-	13.5	13.5	-	Adc
Max. Input Short Circuit Current	45						Adc
Reverse-Polarity Protection	Yes						
Ground-Fault Isolation Detection	600k Sensitivity						
Maximum Inverter Efficiency	99	99.2					%
CEC Weighted Efficiency	99						%
Nighttime Power Consumption	< 2.5						W
ADDITIONAL FEATURES							
Supported Communication Interfaces	RS485, Ethernet, wireless SolarEdge Home Network (optional) <sup>(3)</sup> , Wi-Fi (optional), Cellular (optional)						
Revenue Grade Metering, ANSI C12.20	Optional <sup>(4)</sup>						
Consumption Metering	Optional <sup>(4)</sup>						
Inverter Commissioning	With the SetApp mobile application using Built-in Wi-Fi Access Point for Local Connection						
Rapid Shutdown - NEC 2014-2023 per articles 690.11 and 690.12	Automatic Rapid Shutdown upon AC Grid Disconnect						
STANDARD COMPLIANCE							
Safety	Conforms to UL 1741, UL 1741SA, UL 1741SB, UL 1699B Certified by CSA 22.2#107.1, C22.2#330, C22.3#9, ANSI/CAN/UL 9540						
Grid Connection Standards	IEEE1547 and IEEE-1547.1, Rule 21, Rule 14H						
Emissions	FCC Part 15 Class B						
INSTALLATION SPECIFICATIONS							
AC Output Conduit Size / AWG Range	1" Maximum / 14 – 6 AWG						
DC Input Conduit Size / # of Strings / AWG Range	1" Maximum / 1 – 2 strings / 14 – 6 AWG						
Dimensions with Safety Switch (H x W x D)	17.7 x 14.6 x 6.8 / 450 x 370 x 174						in / mm
Weight with Safety Switch	22 / 10		25.1 / 11.4	27.5 / 12.5	26.2 / 11.9		lb / kg
Noise	< 25					< 50	dBA
Cooling	Natural Convection						
Operating Temperature Range	-40 to +140 / -40 to +60 <sup>(5)</sup>						°F / °C
Protection Rating	NEMA 4X (Inverter with Safety Switch)						

(1) For other regional settings please contact SolarEdge support.

(2) A higher current source may be used; the inverter will limit its input current to the values stated.

(3) For more information, refer to the [SolarEdge Home Network](#) datasheet

(4) Inverter with Revenue Grade Production and Consumption Meter P/N: SExxxxH-US000BEI4. For consumption metering, current transformers should be ordered separately:  
SEACT0750-200NA-20 or SEACT0750-400NA-20. 20 units per box.

(5) Full power up to at least 50°C / 122°F; for power de-rating information refer to the [Temperature Derating](#) technical note for North America.

# SolarEdge Home Wave Inverter

## For North America

### SE10000H-US / SE11400H-US

Applicable to inverters with part number	SEXXXXH-XXXXXBXX4	SE11400H-XXXXXBXX5	Units
	SE10000H-US	SE11400H-US	
OUTPUT			
Rated AC Power Output	10000	11400 @ 240V 10000 @ 208V	VA
Maximum AC Power Output	10000	11400 @ 240V 10000 @ 208V	VA
AC Output Voltage Min. – Nom. – Max. (211 – 240 – 264)	✓	✓	Vac
AC Output Voltage Min. – Nom. – Max. (183 – 208 – 229)	-	✓	Vac
AC Frequency (Nominal)	59.3 – 60 – 60.5 <sup>(6)</sup>		Hz
Maximum Continuous Output Current @240V	42	47.5	A
Maximum Continuous Output Current @208V	-	48.5	A
Power Factor	1, Adjustable – 0.85 to 0.85		
GFDI Threshold	1		A
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes		
INPUT			
Maximum DC Power @240V	15500	17650	W
Maximum DC Power @208V	-	15500	W
Transformer-less, Ungrounded	Yes		
Maximum Input Voltage	480		Vdc
Nominal DC Input Voltage	380		Vdc
Maximum Input Current @240V <sup>(7)</sup>	27	30.5	Adc
Maximum Input Current @208V <sup>(7)</sup>	-	27	Adc
Max. Input Short Circuit Current	45		Adc
Reverse-Polarity Protection	Yes		
Ground-Fault Isolation Detection	600k Sensitivity		
Maximum Inverter Efficiency	99.2		%
CEC Weighted Efficiency	99	99 @ 240V 98.5 @ 208V	%
Nighttime Power Consumption	< 2.5		W
ADDITIONAL FEATURES			
Supported Communication Interfaces	RS485, Ethernet, wireless SolarEdge Home Network (optional) <sup>(8)</sup> , Wi-Fi (optional), Cellular (optional)		
Revenue Grade Metering, ANSI C12.20	Optional <sup>(9)</sup>		
Consumption Metering	Optional <sup>(9)</sup>		
Inverter Commissioning	With the SetApp mobile application using Built-in Wi-Fi Access Point for Local Connection		
Rapid Shutdown - NEC 2014-2023 per articles 690.11 and 690.12	Automatic Rapid Shutdown upon AC Grid Disconnect		
STANDARD COMPLIANCE			
Safety	Conforms to UL 1741, UL 1741SA, UL 1741SB, UL 1699B Certified by CSA 22.2#107.1, C22.2#330, C22.3#9, ANSI/CAN/UL 9540		
Grid Connection Standards	IEEE1547 and IEEE-1547.1, Rule 21, Rule 14H		
Emissions	FCC Part 15 Class B		
INSTALLATION SPECIFICATIONS			
AC Output Conduit Size / AWG Range	1" Maximum / 14 – 4 AWG		
DC Input Conduit Size / # of Strings / AWG Range	1" Maximum / 1 – 3 strings / 14 – 6 AWG		
Dimensions with Safety Switch (H x W x D)	21.06 x 14.6 x 7.3 / 535 x 370 x 185	21.06 x 14.6 x 8.2 / 535 x 370 x 208 <sup>(10)</sup>	in / mm
Weight with Safety Switch	38.8 / 17.6	44.9 / 20.4 <sup>(10)</sup>	lb / kg
Noise	<50		dBA
Cooling	Natural Convection		
Operating Temperature Range	-40 to +140 / -40 to +60 <sup>(11)</sup>		°F / °C
Protection Rating	NEMA 4X (Inverter with Safety Switch)		

(6) For other regional settings please contact SolarEdge support.

(7) A higher current source may be used; the inverter will limit its input current to the values stated.

(8) For more information, refer to the [SolarEdge Home Network](#) datasheet

(9) Inverter with Revenue Grade Production and Consumption Meter P/N: SExxxxH-US000BEI4. For consumption metering, current transformers should be ordered separately: SEACT0750-200NA-20 or SEACT0750-400NA-20. 20 units per box.

(10) SE11400H-USxxxBxx5 is the updated PN, though SE11400H-USxxxBxx4 will still be available. All specifications are similar for both models, **EXCLUDING** the weight and dimensions [HxWxD];

The weight and dimensions of SE11400H-USxxxBxx4 are 38.8 / 17.6 [lb / kg] and 21.06 x 14.6 x 7.3 / 535 x 370 x 185 [in/mm], accordingly.

(11) Full power up to at least 50°C / 122°F; for power de-rating information refer to the [Temperature Derating](#) technical note for North America.



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.





# JUNCTION BOX

## OPTIMALLY SIZED ELECTRICAL BOX FOR ALL ROOF TYPES

Our Junction Box can be deck-mounted or rail-mounted and is specifically sized to house four strings (DC/AC). The hinged lid is designed to be removed or remain open during installation on roofs up to a 70-degree pitch. Deck-mounted installations do not require cutting around the shingles and feature a watertight attic pass-through option. Integrated weep holes, multiple oriented screw bosses, and pre-drilled guides on three sides (South, East, and West) provide a fast, assisted installation.

### FEATURES & BENEFITS

- Ample room to house four strings (DC/AC)
- Weep holes rated for NEMA 3R compliance
- Includes DIN rail, grounding lug, and mounting screws with multiple bosses for flexibility
- Supports up to two attic pass-throughs
- Minimal components for a fast and easy installation
- Low profile design fits under array

## VERSATILE JUNCTION BOX SIZED TO HOUSE FOUR STRINGS



ROOF TYPE

All



RACKING

Rail-Based  
Rail-Less



ATTACHMENT

Rail-Attach  
Deck-Attach





# JUNCTION BOX

## OPTIMALLY SIZED ELECTRICAL BOX FOR ALL ROOF TYPES



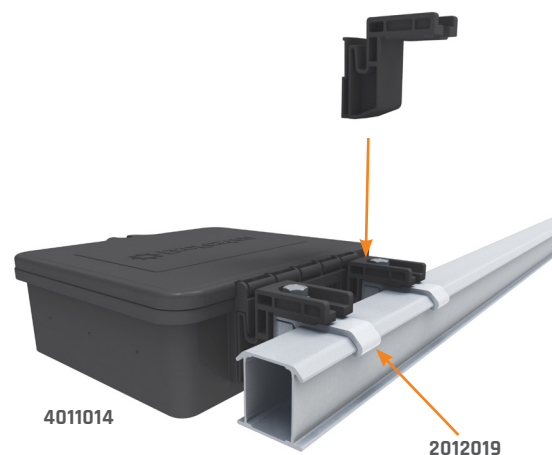
	PRODUCT IMAGE	PART NUMBER	PART DESCRIPTION	BOX QUANTITY	PALLET QUANTITY
JUNCTION BOX	INCLUDES (1) LID SCREW W/ LOCKNUT, (2) #12 DECK SCREWS W/ EPDM SEALING WASHERS, (1) 12" X 8" ALUMINUM FLASHING, (1) DIN 3 RAIL 6 7/8", (1) 4-TERMINAL GROUNDING BAR, (4) #8X3/8" SS DIN RAIL SCREW AND (2) #8 X3/4" SS GROUNDING BAR SCREW				
		4011013	J-BOX W/DECK MOUNT KIT BLK	4	192
	INCLUDES (1) LID SCREW W/ LOCKNUT, (2) RAIL CONNECTORS, (1) DIN 3 RAIL 6 7/8", (1) 4-TERMINAL GROUNDING BAR, (4) #8X3/8" SS DIN RAIL SCREW AND (2) #8 X3/4" SS GROUNDING BAR SCREW				
		4011014	J-BOX W/RAIL MOUNT KIT BLK	4	192
ACCESSORIES		2012019	CF MLPE MOUNT SS	50/400	17600
	INCLUDES (1) 2" LAG BOLT AND (1) SS 8-18 X 3/4" TEK SCREW				
		3011010	CONDUIT BRKT COMP MLL	50	10350
	INCLUDES (1) SS 8-18 X 3/4" TEK SCREW				
		3011011	CONDUIT BRKT TILE MLL	60	4320

### DECK MOUNT KIT:



### RAIL MOUNT KIT:

Rail connectors easily attach to any MLPE Mount.



The Junction Box includes screw bosses in multiple orientations and screws for installing the included DIN rail and grounding bar.



## Rafter or Deck Attach!

- No pilot holes
- Pre-installed sealant
- No caulking, no ripping shingles



## Pre-installed sealant

**Before:** Sealant contained by protective cage. No contact with hands or tools.



## Instant, watertight seal

**After:** Non-hardening sealant automatically fills all gaps, overlays and butt joints.



## Install in any season

Install in 0 to 170° F weather, including rain and sleet. Watertight for life.

# The Ultimate Comp Roof Attachment

Simple to use. Works for rafter or deck attach. No caulking, no ripped shingles, no mess. Pre-installed sealant acts as a chemical flashing and fills all gaps, voids, and butt joints for an instant, watertight seal.



### 25-Year Warranty

Manufactured with advanced materials and coatings to outlast the roof itself



### Code Compliant

Fully IBC/CBC code compliant  
Exceeds ASCE 7-22 standards  
UL2703 certified



### Self-Healing

Proprietary non-hardening sealant will flex and reseal over years of thermal expansion and contraction



### Larger Spans

Extra-large L-foot and proprietary screws result in larger spans between mounts




**1**  
Release Safety.



**2**  
Install screw through center hole, and drive into roof until InstaFlash2 pushes through cage and seats onto the roof.



**3**  
If screw hits rafter, drive second screw in hole above. Ensure screws are embedded at least 2.5" into rafter. Installation complete.




**4**  
If first screw misses rafter, install second screw into the left or right screw holes over rafter.

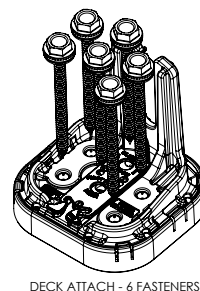
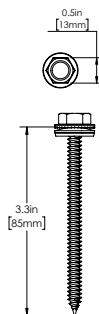
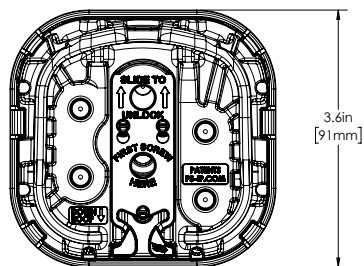
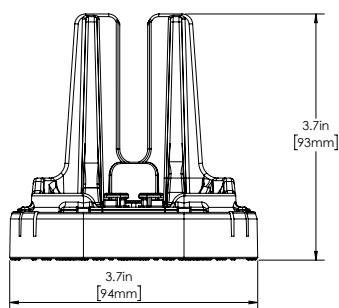


**5**  
Continue until 2 screws are embedded at least 2.5" into rafter.

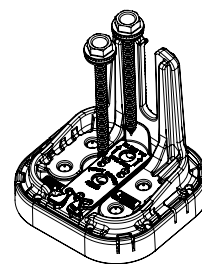


**6**  
For deck attach, use 6 screws.  
*Note: Deck attach may reduce max span.*





DECK ATTACH - 6 FASTENERS



RAFTER ATTACH - 2 FASTENERS

SPECIFICATIONS		INSTAFLASH KITS		
	PIF2-B0	PIF2-BDT	PIF2-M0	PIF2-MDT
Finish	Black		Mill	
Kit Contents	Black InstaFlash2	Black InstaFlash2, Dovetail T-bolt	Mill InstaFlash2	Mill InstaFlash2, Dovetail T-bolt
Attachment Type	Rafter & Deck Attach			
Roof Fasteners	1/2" Socket Driven; PF-DRW85 (sold separately in boxes of 24)			
Roof Type	Sloped Roof: Composition Shingle, Rolled Asphalt   Flat Roof: Modified Bitumen Roof, Built-Up Roof			
Flashing Type	Factory Installed Non-Drying, Non-Skinning Butyl Based Chemical Flashing			
Installation Temperature	0° F to 170° F			
Cure Time	Instantly Waterproof; Non-Hardening			
Service Temperature	-40° F to 195° F			
Certifications	IBC, ASCE/SEI 7-16 & 7-22, UL2703			
Install Application	Most Railed Systems			
Kit Quantity	24			
Boxes Per Pallet	36			



SCAN FOR  
INSTALLATION  
VIDEO



SCAN FOR  
FREE TRIAL

See [www.ps-ip.com](http://www.ps-ip.com) for intellectual property details. All rights reserved. ©2024 Pegasus Solar Inc.



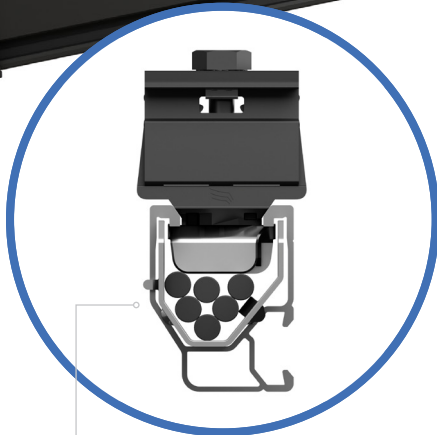
## Instant Bonding

The N-S Bonding Jumper bonds row to row with no tools.



## One Clamp Anywhere

The Multi-Clamp works as mid- or end-clamp, and fits standard 30-40mm frames.



## Lifetime Wire Management

Open rail channel holds and protects wires. Clamps won't pinch wires after tightening.



## Bonding Structural Splice

Connect rails instantly, without tools, interference or limitations.

# Next-Level Solar Mounting

A complete system for hassle-free rooftop installation, from watertight mounts to lifetime wire management.



### Simplicity

1/2" socket for everything.  
One clamp for mid or end.  
No tool splicing and bonding.  
Easy wire management.



### Code Compliant

UL 2703 listed  
LTR-AE-001-2012 listed  
Class A fire rating for any slope  
ASCE 7-16 PE Certified  
FL Cert of Approval FL41396



### Premium Aesthetics

The narrowest panel gap available. Optional Hidden End Clamps and End Caps provide a flush look on the edge of the array.



### Watertight for Life

Secured on industry-leading Pegasus Mounts, for composite shingle and tile roofs. Backed by a 25-year warranty.



**Pegasus Rail**

Available in 14' and 7' lengths for easy layout and shipping.  
Open-channel design holds MC4 connectors, PV wire and trunk cables.  
Black and Mill finish



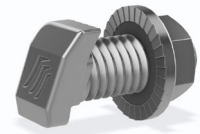
**Pegasus Max Rail**

Maximum-strength design.  
Meets specifications for high snow-load and hurricane zones.  
Black and Mill finish



**Splice and Max Splice**

Installs by hand.  
Works over mounts.  
Structurally connects and bonds rails automatically; UL2703 listed as reusable.



**Dovetail T-bolt**

Dovetail shape for extra strength.  
Uses 1/2" socket.



**Multi-Clamp**

Fits 30-40mm PV frames, as mid- or end-clamp.  
Twist-locks into position; doesn't pinch wires in rail.  
Bonds modules to rail; UL2703 listed as reusable



**Hidden End Clamp**

Offers premium edge appearance.  
Preinstalled pull-tab grips rail edge, allowing easy, one-hand installation.  
Tucks away for reuse.



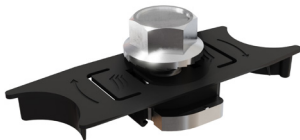
**Ground Lug**

Holds 6 or 8 AWG wire.  
Mounts on top or side of rail.  
Assembled on MLPE Mount.  
UL2703 listed as reusable.



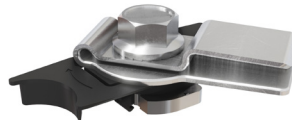
**N-S Bonding Jumper**

Installs by hand, eliminates row-to-row copper wire.  
UL2703 listed as reusable only with Pegasus Rail.



**MLPE Mount**

Secures and bonds most micro-inverters and optimizers to rail.  
Connectors and wires easily route underneath after installation.  
UL2703 listed as reusable.



**Cable Grip**

Secures four PV wires or two trunk cables.  
Stainless-steel backing provides durable grip.  
Eliminates sagging wires.



**Wire Clip**

Hand operable.  
Holds wires in channel.  
Won't slip.



**End Cap and Max End Cap**

Fits flush to PV module and hides raw or angled cuts.  
Hidden drain quickly clears water from rail.

## Certifications:

- UL 2703, Edition 1
- LTR-AE-001-2012
- ASCE 7-16 PE certified
- Class A fire rating for any slope roof
- FL Cert of Approval FL41396



**FREE**  
PEGASUS SOLAR  
Design Tool

Quickly calculate the most efficient layout, spans and materials needed to suit your job. Visit the Pegasus Customer Portal. [pegasussolar.com/portal](https://www.pegasussolar.com/portal)

Patents pending. All rights reserved. ©2023 Pegasus Solar Inc.

LOAD		SPAN										
SNOW (psf)	WIND (MPH)	32"	48"	72"	96"	120"						
0	100											
	130											
10	140											
30	190											
50												
100												
120												

PEGASUS RAIL

PEGASUS MAX RAIL

For reference only. Spans above are calculated using 7-16 for a Gable Roof, Exposure Category B, 0-20deg roof angle, 30ft mean roof height with non-exposed modules. For PE certified span tables, visit [www.pegasussolar.com/spans](https://www.pegasussolar.com/spans).

# Product data sheet

Specifications



Safety switch, general duty, non fusible, 2 pole, 2 wire, 240VAC, 60A, Type 3R with bolt on hub prov

DU222RB

Product availability: Stock - Normally stocked in distribution facility

## Main

Product	Single Throw Safety Switch
Duty Rating	General duty
Device Application	Residential
Disconnect Type	Non-fusible disconnect switch
Factory Installed Neutral	None
Number of Poles	2
Current Rating	60 A
Voltage Rating	240 V AC
Enclosure Rating NEMA	NEMA 3R
Motor power hp	10 hp at 240 V AC 60 Hz for 1 phase motors

## Complementary

Mounting Type	Surface
Electrical Connection	Lugs
Wiring configuration	2 wires
Wire Size	AWG 12...AWG 3 aluminium AWG 14...AWG 3 copper
Tightening torque	35 lbf.in (4.0 N.m) 0.003...0.008 in <sup>2</sup> (2.08...5.26 mm <sup>2</sup> ) (AWG 14...AWG 10) 35 lbf.in (4.0 N.m) (AWG 14...AWG 10) 45 lbf.in (5.08 N.m) 0.01 in <sup>2</sup> (8.37 mm <sup>2</sup> ) (AWG 8) 45 lbf.in (5.08 N.m) 0.02...0.03 in <sup>2</sup> (12.3...21.12 mm <sup>2</sup> ) (AWG 6...AWG 4) 50 lbf.in (5.6 N.m) 0.04 in <sup>2</sup> (26.67 mm <sup>2</sup> ) (AWG 3)
Depth	3.75 in (95.25 mm)
Width	7.75 in (196.85 mm)
Height	9.63 in (244.60 mm)
Net Weight	17.0 lb(US) (7.7 kg)

## Environment

Certifications	UL listed file E2875
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## Ordering and shipping details

Category	US1DE1A00106
Discount Schedule	DE1A

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

GTIN	785901491491
Returnability	Yes
Country of origin	MX

## Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	5.30 in (13.462 cm)
Package 1 Width	7.20 in (18.288 cm)
Package 1 Length	10.00 in (25.400 cm)
Package weight(Lbs)	4.630 lb(US) (2.100 kg)
Unit Type of Package 2	CAR
Number of Units in Package 2	5
Package 2 Height	10.60 in (26.924 cm)
Package 2 Width	10.00 in (25.400 cm)
Package 2 Length	23.90 in (60.706 cm)
Package 2 Weight	23.199 lb(US) (10.523 kg)
Unit Type of Package 3	PAL
Number of Units in Package 3	150
Package 3 Height	40.00 in (101.600 cm)
Package 3 Width	40.00 in (101.600 cm)
Package 3 Length	48.00 in (121.920 cm)
Package 3 Weight	725.000 lb(US) (328.854 kg)

## Contractual warranty

Warranty	18 months
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Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Environmental footprint	
Environmental Disclosure	<a href="#">Product Environmental Profile</a>

Use Better

Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
<a href="#">EU RoHS Directive</a>	Compliant
REACH Regulation	<a href="#">REACH Declaration</a>
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
PVC free	Yes

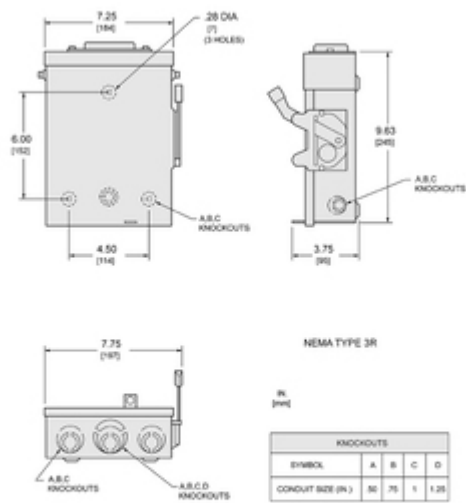
Use Again

Repack and remanufacture	
Circularity Profile	No need of specific recycling operations
Take-back	No



Technical Illustration

Dimensions



TOP OF NEMA TYPE 3R SWITCHES HAVE PROVISIONS FOR MAXIMUM 3 1/2" BOTTOM HUB.  
ALL DIMENSIONS ARE APPROXIMATE. REFER TO TECHNICAL DRAWINGS AND DOCUMENTATION.

Technical Illustration

Wiring diagram

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DU222RB

Image of product / Alternate images

Alternative

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