	VICINITY MAP	SHEET INDEX	SYSTEM INFORMATION		
ic Enr	ic En		PV-01 - TITLE SHEET	SYSTEM SIZE	11.310 kW DC / 10.000 kW AC
is Rd			PV-02 - SITE PLAN	PV MODULES	26 HYUNDAI ENERGY SOLUTIONS - HIE-S435HG
			PV-03 - ROOF PLAN	INVERTERS	1 SOLAREDGE SE10000H-USMNBE78
		Section 1	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
	91 Fields Way Ln, Coats, NC 27521, Coats, NC 27521,		PV-07 - LABELING		
B					
nic Ennis	United States United States		SCOPE OF WORK		
			MOTICE TO CONTENCTION An authorizing the graph of care NTS flating Colors and is subject to the registering and wildings. APROVED When the content of the color of the colo	SOLUTIONS - S440 POWER SE10000H-US METERING (IF	N CONSISTS OF 26 HYUNDAI ENERGY HIE-S435HG PV MODULES, 26 SOLAREDGE OPTIMIZERS, 1 SOLAREDGE MNBE78, AND RELATED ELECTRICAL EUSED) AND SAFETY EQUIPMENT. ENTS ARE UL LISTED AND NEC CERTIFIED, RANTED

CONSTRUCTION NOTES

- A LADDER SHALL BE IN PLACE FOR INSPECTION IN COMPLIANCE WITH OSHA REQUIREMENTS.
- THE PV MODULES ARE CONSIDERED NON-COMBUSTIBLE AND THIS SYSTEM IS A UTILITY GRID INTERACTIVE SYSTEM.
- A GROUNDING ELECTRODE SYSTEM IN ACCORDANCE WITH NEC 690.47, 250.50 THROUGH 60, AND 250.166 SHALL BE PROVIDED. PER CEC, GROUNDING ELECTRODE SYSTEM OF EXISTING BUILDING MAY BE USED AND BONDED TO AT THE SERVICE ENTRANCE. IF EXISTING SYSTEM IS INACCESSIBLE, OR INADEQUATE, OR IS ONLY METALLIC WATER PIPING, 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 GREATER THAN #6 AWG COPPER AND BONDED TO THE EXISTING GROUNDING ELECTRODE TO PROVIDE OR A COMPLETE GROUND.
- EACH MODULE WILL BE GROUNDED USING THE SUPPLIED GROUNDING POINTS IDENTIFIED BY THE MANUFACTURER.
- EXPOSED NON-CURRENT CARRYING METAL PARTS OF MODULE FRAMES, EQUIPMENT, AND CONDUCTOR ENCLOSURES SHALL BE GROUNDED IN ACCORDANCE WITH NEC 250.134 OR 250.136(A) REGARDLESS OF VOLTAGE.
- PROPER ACCESS AND WORKING CLEARANCE AROUND EXISTING AND PROPOSED ELECTRICAL EQUIPMENT WILL BE PROVIDED PER NEC 110.26.
- ALL SIGNAGE WILL BE INSTALLED AS REQUIRED BY THE NEC.
- HEIGHT OF INTEGRATED AC/DC DISCONNECT SHALL NOT EXCEED 6' 7" PER NEC 240.24.
- THE GROUNDING ELECTRODE CONDUCTOR SHALL BE PROTECTED FROM PHYSICAL DAMAGE BETWEEN THE GROUNDING ELECTRODE AND THE PANEL (OR INVERTER) IF SMALLER THAN #6 AWG COPPER WIRE PER NEC 250.64(B). THE GROUNDING ELECTRODE CONDUCTOR WILL BE CONTINUOUS. EXCEPT FOR SPLICES OR JOINTS AT BUSBARS WITHIN LISTED EQUIPMENT PER NEC 250.64(C)
- ALL EXTERIOR CONDUIT SHALL BE PAINTED TO MATCH ADJACENT SURFACES.
- THE PV CONNECTION IN THE PANEL BOARD SHALL BE POSITIONED AT THE OPPOSITE (LOAD) END FROM THE INPUT FEEDER LOCATION OR MAIN CIRCUIT LOCATION PER NEC 705.12 (B)(3)(2).
- SITE CONDITIONS SHALL PREVAIL IF NO SCALE IS GIVEN. DRAWINGS ARE NOT NECESSARILY TO SCALE. ALL DIMENSIONS SHALL BE VERIFIED BY SUBCONTRACTOR UPON COMMENCEMENT OF CONSTRUCTION.
- PER THE INTERNATION RESIDENTIAL CODE (IRC) § R314 & R315, 10 YEAR BATTERY CARBON MONOXIDE AND SMOKE ALARMS SHALL BE INSTALLED IN EACH SLEEPING AREA AND HALLWAYS LEADING TO SLEEPING AREAS.

F WORK

ALL EQUIPMENT WILL BE INSTALLED AS REQUIRED BY APPLICABLE CODES AND LOCAL UTILITY COMPANY REQUIREMENTS.

CONDUIT RUN WILL BE INSTALLED EXTERNALLY

DESIGN CRITERIA

WIND SPEED: 119

SNOW LOAD: 27

EXISTING BUILDING INFORMATION

STRUCTURE TYPE: RESIDENTIAL OCCUPIED BUILDING ROOF FRAMING: 2'X4' TRUSSES 24".O.C ROOF TYPE: COMPOSITE SHINGLE STORIES: 1

UTILITY COMPANY: DUKE ENERGY

APPLICABLE CODES

2023 NATIONAL ELECTRICAL CODE 2018 INTERNATIONAL RESIDENTIAL CODE 2018 INTERNATIONAL FIRE CODE 2018 INTERNATIONAL BUILDING CODE

MJAK COMPANY 8416 US HWY 158. STOKESDALE. NC 27357 (336) 317-0114 www.mjakcompany.com LICENSE NO: L.18856

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

SIGN. / STAMP

PROJECT INFORMATION

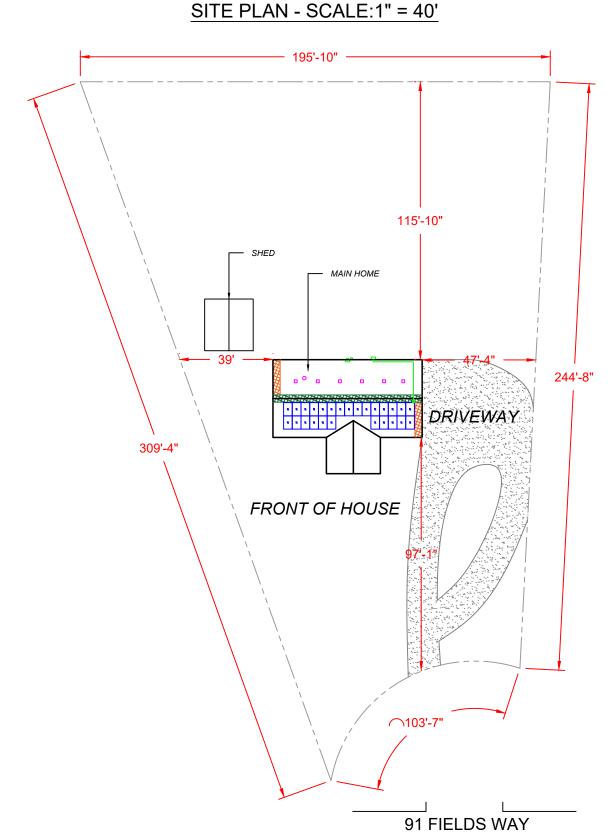
CAPHORA

DESIGN AND ENGINEERING

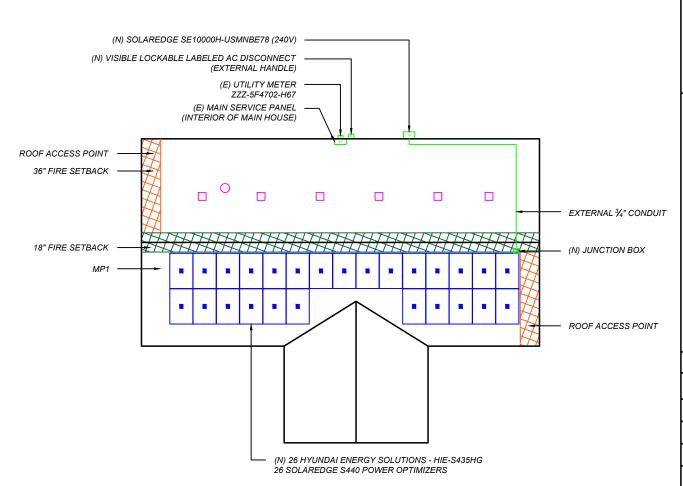
TITLE SHEET PV - 01

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





CLOSE UP VIEW - SCALE:1" = 15'



MJAK COMPANY 8416 US HWY 158, STOKESDALE, NC 27357 (336) 317-0114 www.mjakcompany.com LICENSE NO : L.18856

SIGN. / STAMP

PROJECT INFORMATION

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

CAPHORA

DESIGN AND ENGINEERING

ELEVATION DETAIL PV - 02.1

LEGEND:



3' SETBACK



30" SETBACK



18" SETBACK



MAIN SERVICE PANEL AC DISCONNECT

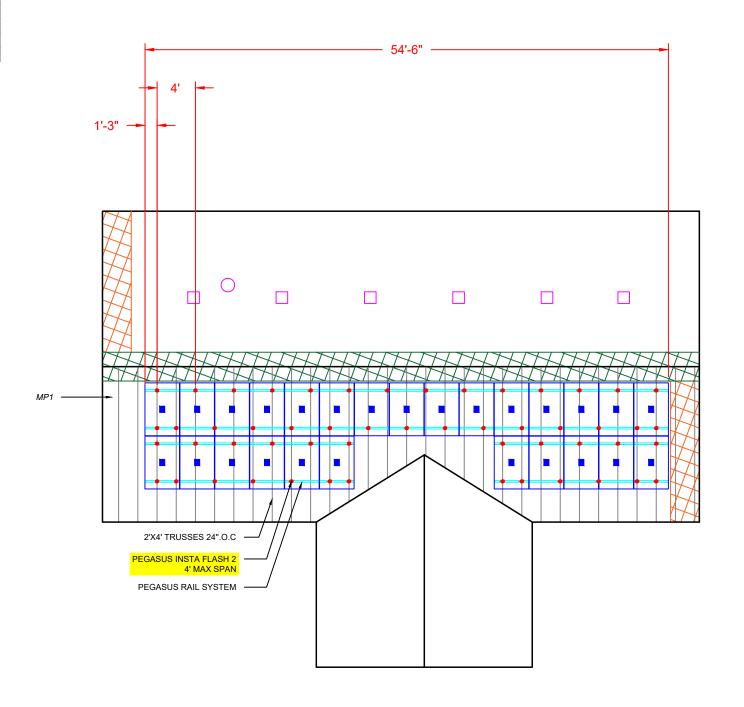


INVERTER [



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 SO FT 4.24 PSF					



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 $^{\text{sqft}}$ /panel 22.41 $^{\text{sqft}}$ /panel 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



MJAK COMPANY 8416 US HWY 158, STOKESDALE, NC 27357 (336) 317-0114 www.mjakcompany.com LICENSE NO: L.18856

PROJECT INFORMATION				
NAME:	FELIX MEJIA			
ADDRESS:	91 FIELDS WAY			
CITY:	COATS			
STATE, ZIP:	NC 27521			
АНЈ:	HARNETT COUNTY			

SIGN. / STAMP

CAPHORA

Kgonzaga

DESIGN AND ENGINEERING

APN#: 71610001513

DRAWN BY: KGONZAGA

DATE: 26/08/2025

ROOF LAYOUT PV - 03

AZIMUTH AND SLOPE

MOUNTING PLANE MP1

MODULE COUNT 26

AZIMUTH 165

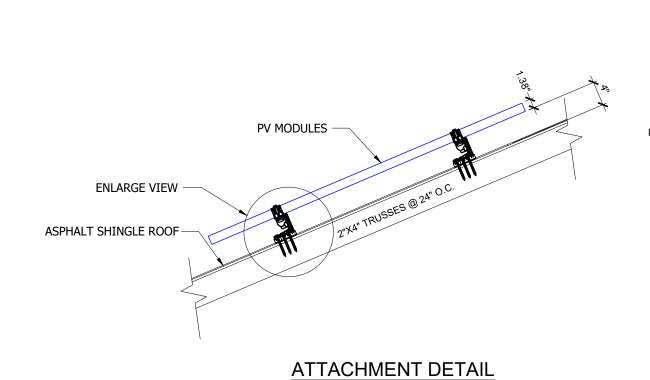
TILT (Degrees)

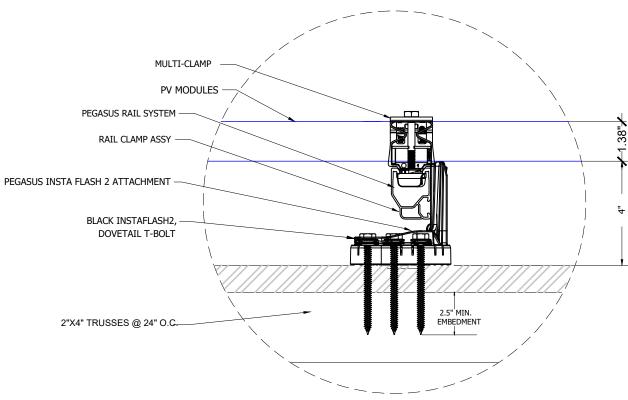
28



Scale:1" = 10'

COMPOSITE SHINGLE





ATTACHMENT DETAIL(ENLARGE VIEW)

SCALE: N

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



MJAK COMPANY 8416 US HWY 158, STOKESDALE, NC 27357 (336) 317-0114 www.mjakcompany.com LICENSE NO: L.18856

SIGN. / STAMP
PROJECT INFORMATION

NAME: FELIX MEJIA
ADDRESS: 91 FIELDS WAY

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

MOUNTING DETAIL PV - 04

OBJ.	DESCRIPTION	DESCRIPTION COMPONENT		CONDUCTOR (NEUTRAL SIZED THE SAME AS CURRENT CARRYING CONDUCTORS)	CONDUIT CO	GROUNDING WIRE SIZE : MAX OCPD	
1	(N) BRANCH OF POWER OPTIMIZERS IN SERIES	26 SOLAREDGE S440 POWER OPTIMIZERS	EC	90°C RATED THWN-2 @.	# OF CURRENT	AMP CORR	(PROTECTE UNLESS
2	(N) SOLAR PV MODULES	26 HYUNDAI ENERGY SOLUTIONS - HIE-S435HG	E	30°C PER 310.16	CARRYING CONDUCTORS	310.15(C)(1)	STATED)
(3)	(N) J-BOX	JUNCTION BOX	A	#12 AWG (90°C Cu) = 30A	N/A	N/A	#6 AWG (Ca
4	(N) INVERTER	1 SOLAREDGE SE10000H-USMNBE78 (240V)	ß	#10 AWG (90°C Cu) = 40A	4 CONDUCTORS	.8	#8 AWG (C
5	(N) AC DISCONNECT	SQUARE D 60A NON-FUSIBLE - DU222RB	$\overline{\Diamond}$	#6 AWG (90°C Cu) = 75A	2 CONDUCTORS	1	#8 AWG (C
6	(E) MAIN ELECTRICAL SERVICE PANEL	200A RATED, 240V, 2P, WITH 200A MAIN BREAKER			ı		
7	(E) DUKE ENERGY UTILITY METER	DUKE ENERGY UTILITY METER #: ZZZ-5F4702-H67					

CONDUCTOR (NEUTRAL SIZED THE SAME AS CURRENT	CONDUIT CO					CONDUCT				
90°C RATED THWN-2 @ 30°C PER 310.16	# OF CURRENT CARRYING CONDUCTORS		MAX OCPD (PROTECTED UNLESS STATED)		HEIGHT ABOVE ROOF	AMBIENT TEMP (°C)	AMPACITY CORRECTION 310.15(B)(2)	AMPS DER. DER.	=	CORRECTED AMPACITY
#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
#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
#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

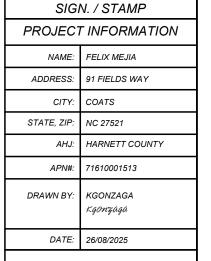
THE SYSTEM WILL BE CONTROLLED BY AN ENERGY MANAGEMENT SYSTEM (EMS) UTILIZING A POWER CONTROL SYSTEM (PCS) IN ACCORDANCE WITH NEC 2023, SECTION

705.13. CONTROL WILL BE ELECTRONIC USING SOLAREDGE BUSBAR CURRENT MANAGEMENT, LIMITING THE TOTAL

CURRENT ON THE 200A BUSBAR TO 80% (160A).

MJAK COMPANY 8416 US HWY 158. (336) 317-0114 www.mjakcompany.com

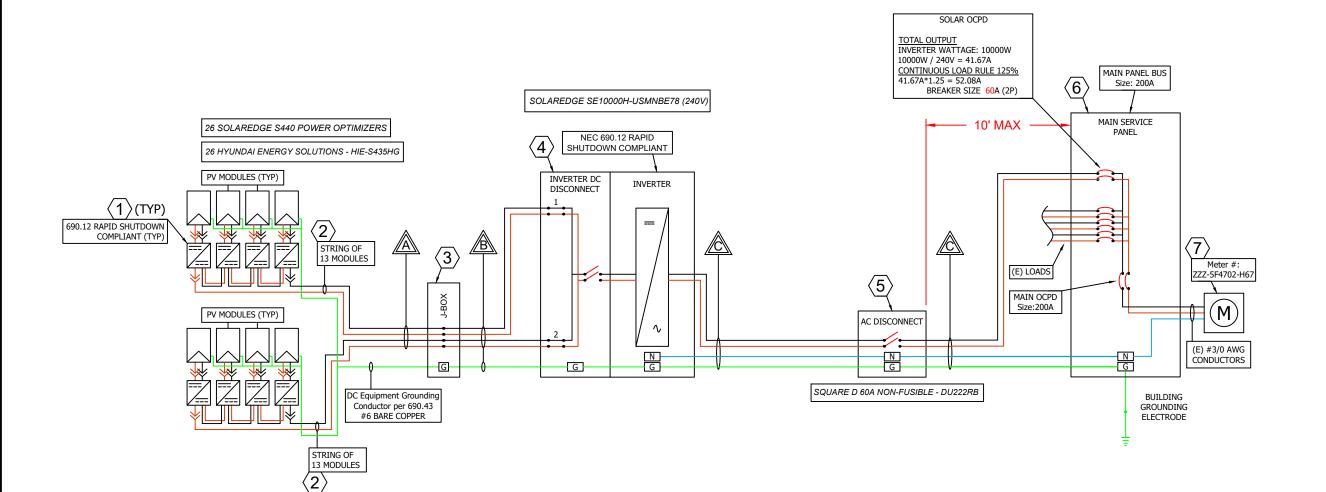
STOKESDALE, NC 27357 LICENSE NO : L.18856



CAPHORA

DESIGN AND ENGINEERING

ELECTRICAL DIAGRAM PV - 05



LEGENDS:

^ • **^** • FUSE • • SWITCH

CONDUIT RUN CURRENT CARRYING CONDUCTOR

G — GROUNDING CONDUCTOR N - NEUTRAL CONDUCTOR

GROUND ELECTRODE M METER

INVERTER POWER OPTIMIZER

SOLAR MODULE SE	PECIFICATIONS	INVERTER SPI	ECIFICATIONS	OPTIMIZER SPECIF	ICATIONS	AMBIENT TEMPERATURE SPECIFICATIONS	
MANUFACTURER / MODEL #	HYUNDAI SOLAR:			MANUFACTURER / MODEL #	SOLAREDGE S440	RECORD LOW TEMP	1°C
	HIE-S435HG	POWER RATING	10000W	DC INPUT POWER	440W	AMBIENT TEMP (HIGH TEMP 2% AVE.)	35°C
VMP	36.2V	CONT. OUTPUT CURRENT	42.0A	DC MAX INPUT VOLTAGE	60V	DISTANCE ABOVE ROOF (0.5°)	57°C
IMP	12.02A	MAX. INPUT CURRENT	27.0A	DC MAX INPUT CURRENT	14.55	CONDUIT HEIGHT	<u>Z</u> o
VOC	43.6V	MAX DC VOLTAGE	480V	DC MAX OUTPUT CURRENT	15A	CONDUCTOR TEMPERATURE RATE	90°C
ISC	12.79A	WANDO VOLINGE	1000	DO WING COTT OT CONNENT	10/1	CONDUCTOR TEMPLETATORE TATE	30 0
TEMP. COEFF. VOC	-0.27% / °C	=					

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

74.76" x 43.15"

MODULE DIMENSION

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 SOLAREDGE 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



MJAK COMPANY 8416 US HWY 158, STOKESDALE, NC 27357 (336) 317-0114 www.mjakcompany.com LICENSE NO: L.18856

SIGN. / STAMP

PROJECT INFORMATION

NAME: FELIX MEJIA

ADDRESS: 91 FIELDS WAY

CITY: COATS

STATE, ZIP: NC 27521

AHJ: HARNETT COUNTY

APN#: 71610001513

DRAWN BY: KGONZAGA

KGONZAGA

KGONZAGA

DATE: 26/08/2025

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



LABEL 1

AT RAPID SHUTDOWN SYSTEM [NEC 690.56(C)]

ACAUTION

PHOTOVOLTAIC SYSTEM CIRCUIT IS BACKFED

LABEL 2

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

AWARNING

POWER SOURCE OUTPUT **CONNECTION - DO NOT RELOCATE** THIS OVERCURRENT DEVICE

LABEL 3

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

AWARNING

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)]

AWARNING

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: PHOTOVOI TAIC **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

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

SOLAREDGE

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:

AMPS



MJAK COMPANY 8416 US HWY 158. STOKESDALE, NC 27357 (336) 317-0114 www.mjakcompany.com LICENSE NO: L.18856

SIGN. / STAMP

PROJECT INFORMATION NAME: FELIX MEJIA ADDRESS: 91 FIFI DS WAY CITY: COATS STATE, ZIP NC 27521 AHJ: HARNETT COUNTY APN# 71610001513 DRAWN BY KGONZAGA Kgonzaga

CAPHORA

DESIGN AND ENGINEERING

DATE: 26/08/2025

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 2535 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]

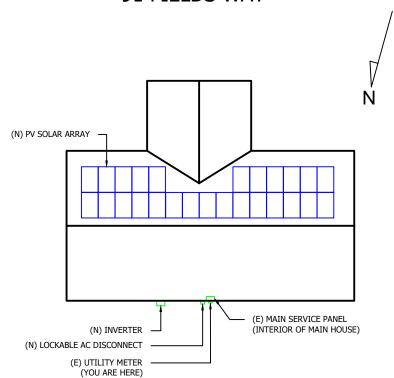
PERMANENT PLACE OR DIRECTORY PROVIDING THE LOCATION OF THE SERVICE DISCONNECTING AND THE PHOTOVOLTAIC SYSTEM DISCONNECTING MEANS, IF NOT IN THE SAME LOCATION [NEC 690.56(B)] WHERE THE PV SYSTEMS ARE REMOTELY LOCATED FROM EACH OTHER, A DIRECTORY IN ACCORDANCE WITH 705.10 SHALL BE PROOVIDED AT EACH PV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



G12 PERC Shingled

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







For Both Residential & Commercial **Applications**



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.



Reliable Warranty

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



Mechanical Strength

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



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













Printed Date: 06/2022 www.hvundai-es.co.kr

Electrical Characteristics			Mono-Crystalline Module (HiE-S_	_HG(FB))			
		430	435	440			
Nominal Output (Pmpp)	W	430	435	440			
Open Circuit Voltage(Voc)	V	43.5	43.6	43.7			
Short Circuit Voltage (Isc)	А	12.68	12.79	12.90			
Voltage at Pmax (Vmpp)	V	36.1 36.2		36.3			
Cuurent at Pmax (Impp)	А	11.92	12.02	12.13			
Module Efficiency	%	20.7	20.9	21.1			
Cell Type	-		PERC Mono-Crystalline Silicon Shing	led			
Maximum System Voltage	V		1,500				
Temperature Coefficiency of Pmax	« %/°C		-0.34				
Temperature Coefficiency of Voc	%/°C		-0.27				
Temperature Coefficiency of Isc	%/°C		0.04				

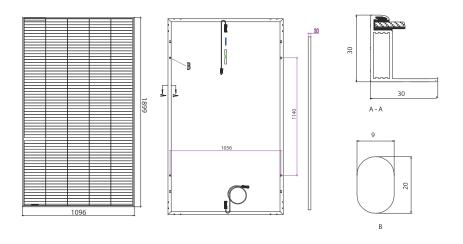
*All data at STC(Standard Test Conditions). Above data may be changed without prior notice. *Tolerance of Pmax:0~+5W. *Measuring uncertainty of power: \pm 3%.

* Performance deviation of Voc [V], Isc [A], Vm[V] and Im[A]: $\pm 3\%$.

Mechanical Characteristics

Dimensions	1,899 \times 1,096 \times 30 mm (L \times W \times H)					
Weight	21.8kg					
Solar Cells	320 Cells, PERC Mono-crystaline Shingled (210 $ imes$ 210mm)					
Output Cables	4mm²,+500mm/-1100mm(Vertical), +220mm/-180mm(Horizontal)					
Junction Box	IP68, TUV&UL, two diodes					
Construction	Front Glass: AR Coated tempered glass, 3.2mm Encapsulation: EVA (Ethylene-Vingl-Acetate)					
Frame	Anodized Aluminum					

Module Diagram (Unit: mm)

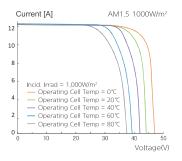


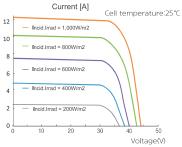
Installation Safety Guide

- 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℃ (±2℃)				
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				

I-V Curves









Sales & Marketing sales@hyundai-es.co.kr



SolarEdge Home Wave Inverter For North America

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





INVERTERS

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	SEXXXXH-XXXXXBXX4						
	SE3000H-US	SE3800H-US	SE5000H-US	SE5700H-US	SE6000H-US	SE7600H-US	Units
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 – 6	50 - 60.5 ⁽¹⁾	1	1	Hz
Maximum Continuous Output Current @240V	12.5	16	21	24	25	32	Α
Maximum Continuous Output Current @208V	=	16	-	24	24	-	Α
Power Factor		I	1. Adiustable	e – 0.85 to 0.85			
GFDI Threshold			, -,	1			А
Utility Monitoring, Islanding Protection, Country Configurable Thresholds			,	⁄es			
INPUT	1						
Maximum DC Power @240V	4650	5900	7750	8900	9300	11800	W
Maximum DC Power @208V	-	5100	-	7750	7750	-	W
Transformer-less, Ungrounded		3.00	\	Yes			
Maximum Input Voltage				180			Vdc
Nominal DC Input Voltage				380			Vdc
Maximum Input Current @240V ⁽²⁾	8.5	10.5	13.5	16	16.5	20	Adc
Maximum Input Current @208V ⁽²⁾	-	9	-	13.5	13.5	-	Adc
Max. Input Short Circuit Current				45	15.5		Adc
Reverse-Polarity Protection	Yes				7100		
Ground-Fault Isolation Detection	600k Sensitivity						
Maximum Inverter Efficiency	99		00010	99.2			%
CEC Weighted Efficiency	33			99			%
Nighttime Power Consumption				2.5			W
ADDITIONAL FEATURES							
Supported Communication Interfaces	RS485 Fth	ernet wireless Sola	arEdge Home Netw	ork (optional) ⁽³⁾ Wi	-Fi (optional), Cellul	ar (ontional)	
Revenue Grade Metering, ANSI C12.20	113 1037 241			ional ⁽⁴⁾	т (ориоталу села	a. (optional)	
Consumption Metering				ional ⁽⁴⁾			
Inverter Commissioning	With t	he SetAnn mohile			Point for Local Con	nection	
Rapid Shutdown - NEC 2014-2023 per articles 690.11 and 690.12			11	vn upon AC Grid Di			
STANDARD COMPLIANCE	1						
Safety	Conforms to UL 1741, UL 1741SA, UL 1741SB, UL 1699B						
Grid Connection Standards	Certified by CSA 22.2#107.1, C22,2#330, C22.3#9, ANSI/CAN/UL 9540 IEEE1547 and IEEE-1547.1, Rule 21, Rule 14H						
Emissions				t 15 Class B			
INSTALLATION SPECIFICATIONS							
AC Output Conduit Size / AWG Range			1" Maximum	n / 14 – 6 AWG			
DC Input Conduit Size / # of Strings / AWG Range				! strings / 14 – 6 AW	/G		
Dimensions with Safety Switch (H x W x D)				/ 450 x 370 x 174			in / mr
Weight with Safety Switch	22	2 / 10	25.1 / 11.4	27.5 / 12.5	26.2	2 / 11.9	lb / ko
Noise			< 25			< 50	dBA
Cooling				Convection		1	
Operating Temperature Range	-40 to +140 / -40 to +60 ⁽⁵⁾			°F / °(
Protection Rating				r 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 <u>SolarEdge Home Network</u> 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	
ОИТРИТ			
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 ⁽⁶⁾	Hz
Maximum Continuous Output Current @240V	42	47.5	А
Maximum Continuous Output Current @208V	-	48.5	А
Power Factor	1, Adjustabl	e – 0.85 to 0.85	
GFDI Threshold		1	А
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 ⁽⁷⁾	27	30.5	Adc
Maximum Input Current @208V ⁽⁷⁾	-	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 Netv	vork (optional) ⁽⁸⁾ , Wi-Fi (optional), Cellular (optional)	
Revenue Grade Metering, ANSI C12.20	Ор	tional ⁽⁹⁾	
Consumption Metering	Ор	tional ⁽⁹⁾	
Inverter Commissioning	With the SetApp mobile application using E	Built-in Wi-Fi Access Point for Local Connection	
Rapid Shutdown - NEC 2014-2023 per articles 690.11 and 690.12	Automatic Rapid Shutdon	wn 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-1	1547.1, Rule 21, Rule 14H	
Emissions	FCC Part 15 Class B		
INSTALLATION SPECIFICATIONS			
AC Output Conduit Size / AWG Range	1" Maximur	m / 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 ⁽¹⁰⁾	in / m
Weight with Safety Switch	38.8 / 17.6	44.9 / 20.4(10)	lb/k
Noise		<50	dBA
Cooling	Natural	Convection	
Operating Temperature Range	-40 to +140) / -40 to +60 ⁽¹¹⁾	°F / °(
Protection Rating	NEMA 4X (Inverte	er 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 <u>SolarEdge Home Network</u> datasheet

⁽⁹⁾ Inverter with Revenue Grade Production and Consumption Meter P/N: SExxxxl-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 $21.06 \times 14.6 \times 7.3 / 535 \times 370 \times 185$ [in/mm], accordingly.

⁽¹¹⁾ Full power up to at least 50° C / 122° F; for power de-rating information refer to the <u>Temperature Derating</u> 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.



@SolarEdgePV

SolarEdgePV

in SolarEdge

www.solaredge.com/corporate/contact

solaredge.com

© SolarEdge Technologies, Ltd. All rights reserved. SOLAREDGE, the SolarEdge logo, OPTIMIZED BY SOLAREDGE are trademarks or registered trademarks of SolarEdge Technologies, Inc. All other trademarks mentioned herein are trademarks of their respective owners. Date: February 6, 2024 DS-000153 Subjectto change without notice.

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.







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



All



Rail-Based



Rail-Attach Deck-Attach





JUNCTION BOX OPTIMALLY SIZED ELECTRICAL BOX FOR ALL ROOF TYPES



	PRODUCT IMAGE	PART NUMBER	PART DESCRIPTION	BOX QUANTITY	PALLET QUANTITY
	(1) 12" X	9" ALUMINUM FLASHING, (1)	T, (2) #12 DECK SCREWS W/ EP DIN 3 RAIL 6 7/8", (1) 4-TERMIN AND (2) #8 X3/4" SS GROUNDI	AL GROUNDING BAR	
JUNCTION BOX		4011013	J-BOX W/DECK MOUNT KIT BLK	4	192
UNCT	INCLUDES (1 Grounding) LID SCREW W/ LOCKNUT, (2 3 BAR, (4) #8X3/8" SS DIN R	2) RAIL CONNECTORS, (1) DIN 3 F AIL SCREW AND (2) #8 X3/4" S	RAIL 6 7/8", (1) 4-TE S GROUNDING BAR S	RMINAL SCREW
		4011014	J-BOX W/RAIL MOUNT KIT BLK	4	192
		2012019	CF MLPE MOUNT SS	50/400	17600
ES		INCLUDES (1) 2" LAG E	30LT AND (1) SS 8-18 X 3/4" TEK	SCREW	
ACCESSORIES		3011010	CONDUIT BRKT COMP MLL	50	10350
AG		INCLUDES (1) SS 8-18 X 3/4" TEK SCREW		
	7	3011011	CONDUIT BRKT TILE MLL	60	4320

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





DECK MOUNT KIT:



RAIL MOUNT KIT:

Rail connectors easily attach to any MLPE Mount.







INSTAFLASH 2



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



INSTAFLASH® 2



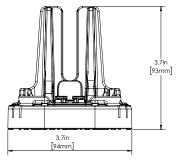
Install screw
through center
hole, and drive
into roof until
InstaFlash2 pushes
through cage and
seats onto the
roof.

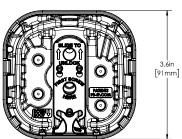
3
If screw hits rafter, drive second screw in hole above.
Ensure screws are embedded at least 2.5" into rafter. Installation complete.

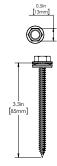


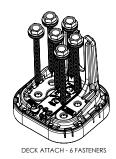














SPECIFICATIONS	INSTAFLASH KITS				
	PIF2-B0	PIF2-BDT	PIF2-M0	PIF2-MDT	
Finish	Black		Mill		
Kit Contents	Black InstaFlash2	Black InstaFlash2, Dovetail T-bolt	Mill InstaFlash2	Mill InstaFlash2, Dovetail T-bolt	
Attachment Type		Rafter & De	ck Attach		
Roof Fasteners	1/2" So	1/2" Socket Driven; PF-DRW85 (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

 $See \ www.ps-ip.com \ for \ intellectual \ property \ details. \ All \ rights \ reserved. \ @2024 \ Pegasus \ Solar \ Inc.$



RAIL SYSTEM





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.

RAIL SYSTEM









Dovetail T-bolt

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





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



Splice and Max Splice

Installs by hand. Works over mounts.

Structurally connects and bonds rails automatically; UL2703 listed as reusable.







Multi-Clamp

Fits 30-40mm PV frames, as mid- or end-clamp.

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



Quickly calculate the most efficient layout, spans and materials needed to suit your job. Visit the Pegasus Customer Portal. pegasussolar.com/portal

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

LC	AD			SPAN		
SNOW (psf)	WIND (MPH)	32"	48"	72"	96″	120″
0	100					
	130					
10	140					
30						
50	190					
100	170				PEGASUS RAIL	
120					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.





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 12AWG 3 aluminium AWG 14AWG 3 copper
Tightening torque	35 lbf.in (4.0 N.m) 0.0030.008 in² (2.085.26 mm²) (AWG 14AWG 10) 35 lbf.in (4.0 N.m) (AWG 14AWG 10) 45 lbf.in (5.08 N.m) 0.01 in² (8.37 mm²) (AWG 8) 45 lbf.in (5.08 N.m) 0.020.03 in² (12.321.12 mm²) (AWG 6AWG 4) 50 lbf.in (5.6 N.m) 0.04 in² (26.67 mm²) (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

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.

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



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

Product Environmental Profile

Use Better

⊗ Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant
REACh Regulation	REACh Declaration
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 www.P65Warnings.ca.gov
PVC free	Yes

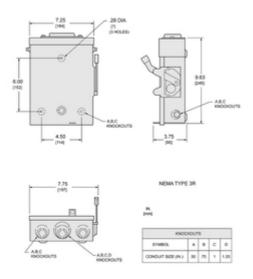
Use Again

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

DU222RB

Technical Illustration

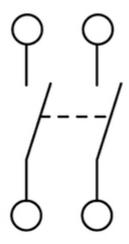
Dimensions



TOP OF MEMATYPE SH SWITCHES HAVE PROVISIONS FOR MARKAUS 10° BOLT-ON HUB.
ALL DIMENSIONS ARE APPROXIMATE. REPER TO TECHNICAL DRIVATINGS ARE DOCUMENTATION.

Technical Illustration

Wiring diagram



DU222RB

DU222RB

Image of product / Alternate images

Alternative

