

## PROJECT DETAILS

PV Modules	32 x SOLARIA POWERX-400R
Optimizers	32 x P505
Inverter	1 x SE10000H-US (RGM)
Roof Type	Asphalt Shingles
Racking	PSR-B84 Rails (Black)
Mounting Type	CompMount Flashing (Black)
DC SIZE	12.8 kW
AC SIZE	10.0 kVA

## DRAWING INDEX

Item	Drawing #	Rev	Description
1	22240JJ00-0	A	Drawing Index
2	22240JJ00-1	A	Site Layout
3	22240JJ00-2	A	String Mapping
4	22240JJ00-3	A	Electrical One Line Diagram
5	22240JJ00-4	A	Detailed Electrical Wiring Schematic
6	22240JJ00-5	A	PV Labels
7	22240JJ00-6	A	Bill of Materials

## TOP VIEW OF BUILDING



1600 Heritage Commerce Ct Ste 104,  
Wake Forest NC 27587  
O: 919.948.6474  
E: info@8msolar.com

Jeremiah W Joines  
200 Waterford Dr  
Angier NC 27501

## PHOTOVOLTIC NOTES

1. THE INSTALLATION OF SOLAR ARRAYS AND PHOTOVOLTAIC POWER SYSTEMS SHALL COMPLY WITH THE FOLLOWING CODES:

- 2020 NATIONAL ELECTRICAL CODE
- 2018 NORTH CAROLINA RESIDENTIAL CODE
- 2018 NORTH CAROLINA BUILDING CODE
- AS ADOPTED BY THE STATE OF NORTH CAROLINA
- ALL OTHER ORDINANCE ADOPTED BY THE LOCAL GOVERNING AGENCIES

2. ROOFTOP MOUNTED PHOTOVOLTAIC PANELS AND MODULES SHALL BE TESTED, LISTED AND IDENTIFIED BY RECOGNIZED ELECTRICAL TESTING LABORATORY.

3. SOLAR SYSTEM SHALL NOT COVER ANY PLUMBING OR MECHANICAL VENTS

4. MODULES AND SUPPORT STRUCTURES SHALL BE GROUNDED

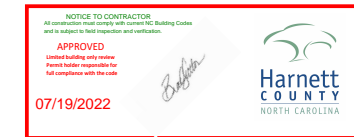
5. SOLAR INVERTER SHALL BE LISTED TO UL1741

6. ALL CONDUCTORS SHALL BE COPPER AND SHOULD BE 75 AND 90 DEG RATED

7. REMOVAL OF AN INTERACTIVE INVERTER OR OTHER EQUIPMENT SHALL NOT DISCONNECT THE BONDING CONNECTION BETWEEN THE GROUNDING ELECTRODE CONDUCTOR AND THE PHOTOVOLTAIC SOURCE AND/OR OUTPUT CIRCUIT GROUNDED CONDUCTORS.

8. LIVE PARTS OF PV SOURCE CIRCUITS AND PV OUTPUT CIRCUITS OVER 150V TO GROUND SHALL NOT BE ACCESSIBLE TO OTHER THAN QUALIFIED PERSONS WHILE ENERGIZED.

9. ALL PV MODULES AND ASSOCIATED EQUIPMENT AND WIRING SHALL BE PROTECTED FROM PHYSICAL DAMAGE.



A 07/01/2022

Customer's Signature

JOB NUMBER

22-240-JJ00

PROJECT STATUS

PERMITTING

SHEET

DRAWING INDEX

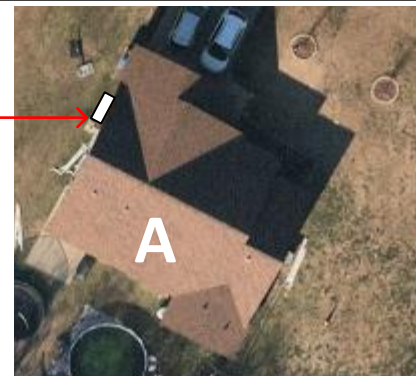
JJ

22240JJ00-0

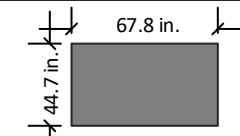
There is one layer of shingles  
Roofing material is asphalt shingles

The roof is located in 117mph wind zone

Utility  
Meter



Module  
Dimension



Roofs	Pitch	Azimuth
A	33°	207°

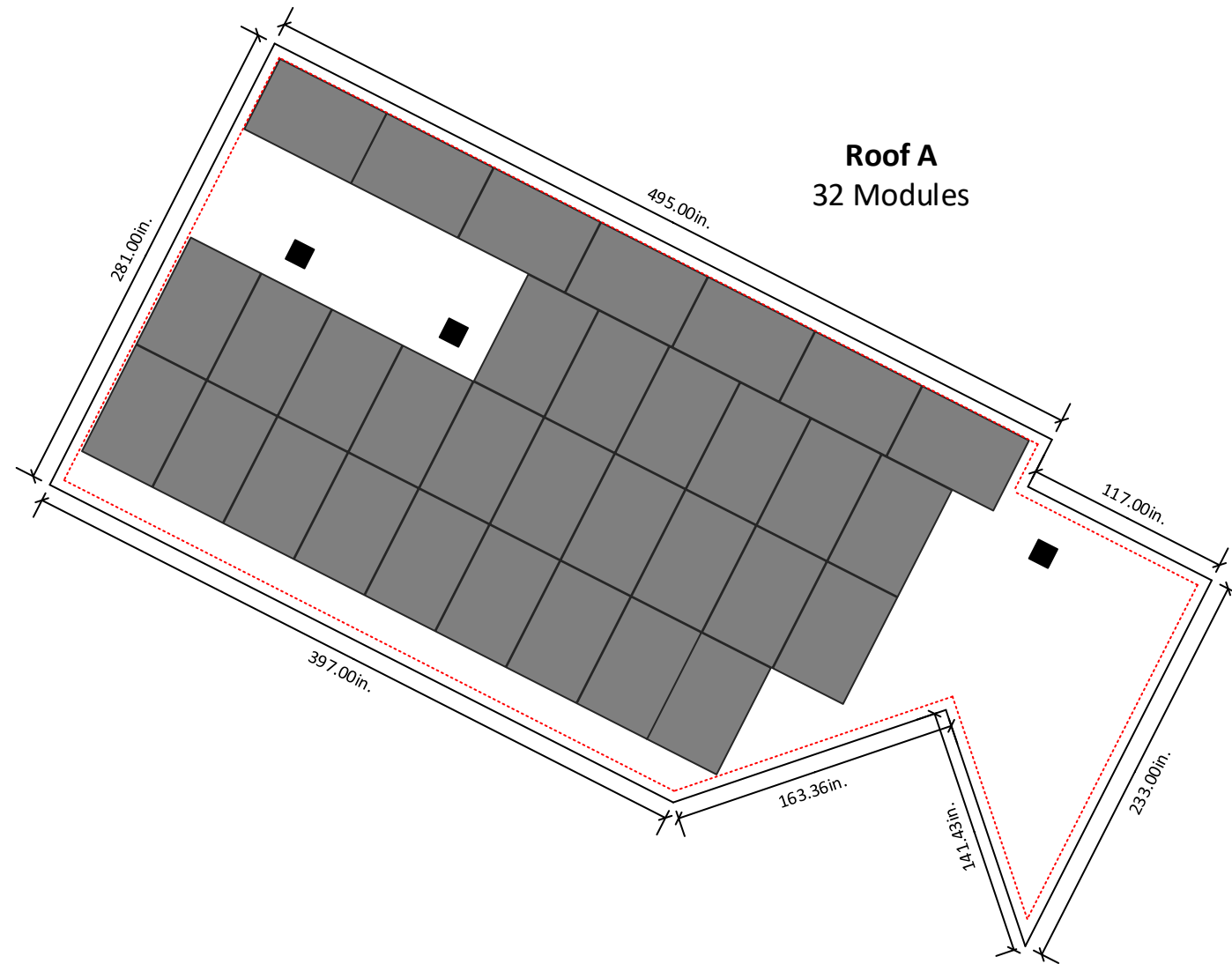


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**SYSTEM DETAILS**

NUMBER OF PANELS : 32  
PANELS MODEL : Solaria PowerX-400R  
DC SIZE : 12.8 kW  
AC SIZE : 10.0 kVA

**Roof A**  
32 Modules



6" clearance  
from each side  
of the roof

**SITE LAYOUT**  
SCALE: 1/8" - 1' 0"



**Jeremiah W Joines**  
200 Waterford Dr  
Angier NC 27501



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\_\_\_\_\_  
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\_\_\_\_\_  
Customer's Signature

JOB NUMBER  
22-240-JJ00

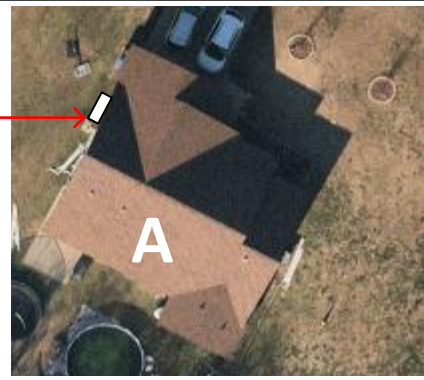
PROJECT STATUS  
PERMITTING

SHEET  
SITE LAYOUT

**JJ**  
**22240JJ00-1**

String Layout					
Inverter-SE10000H-US (RGM)					
Strings #	No. of Modules	Color Code	Strings #	No. of Modules	Color Code
String 1	11				
String 2	11				
String 3	10				

Utility Meter



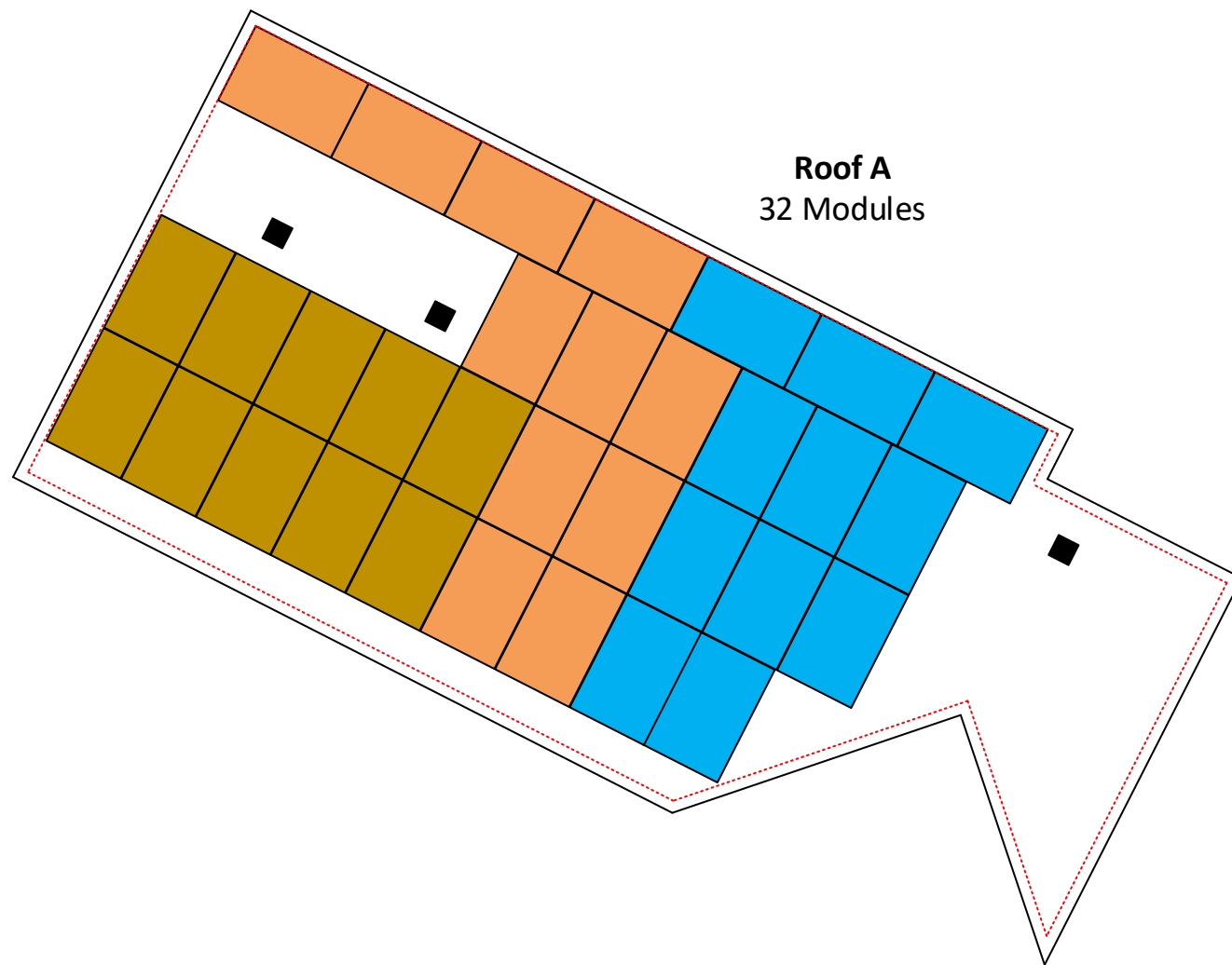
Module Dimension	67.8 in.	
Roofs	Pitch	Azimuth
A	33°	207°



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Roof A  
32 Modules

6" clearance  
from each side  
of the roof

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Angier NC 27501



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Customer's Signature

JOB NUMBER  
22-240-JJ00

PROJECT STATUS  
PERMITTING

SHEET  
STRING MAPPING

STRING MAPPING  
SCALE: 1/8" - 1' 0"



JJ  
22240JJ00-2

**Jeremiah W Joines**  
200 Waterford Dr  
Angier NC 27501



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Customer's Signature

JOB NUMBER

22-240-JJ00

PROJECT STATUS

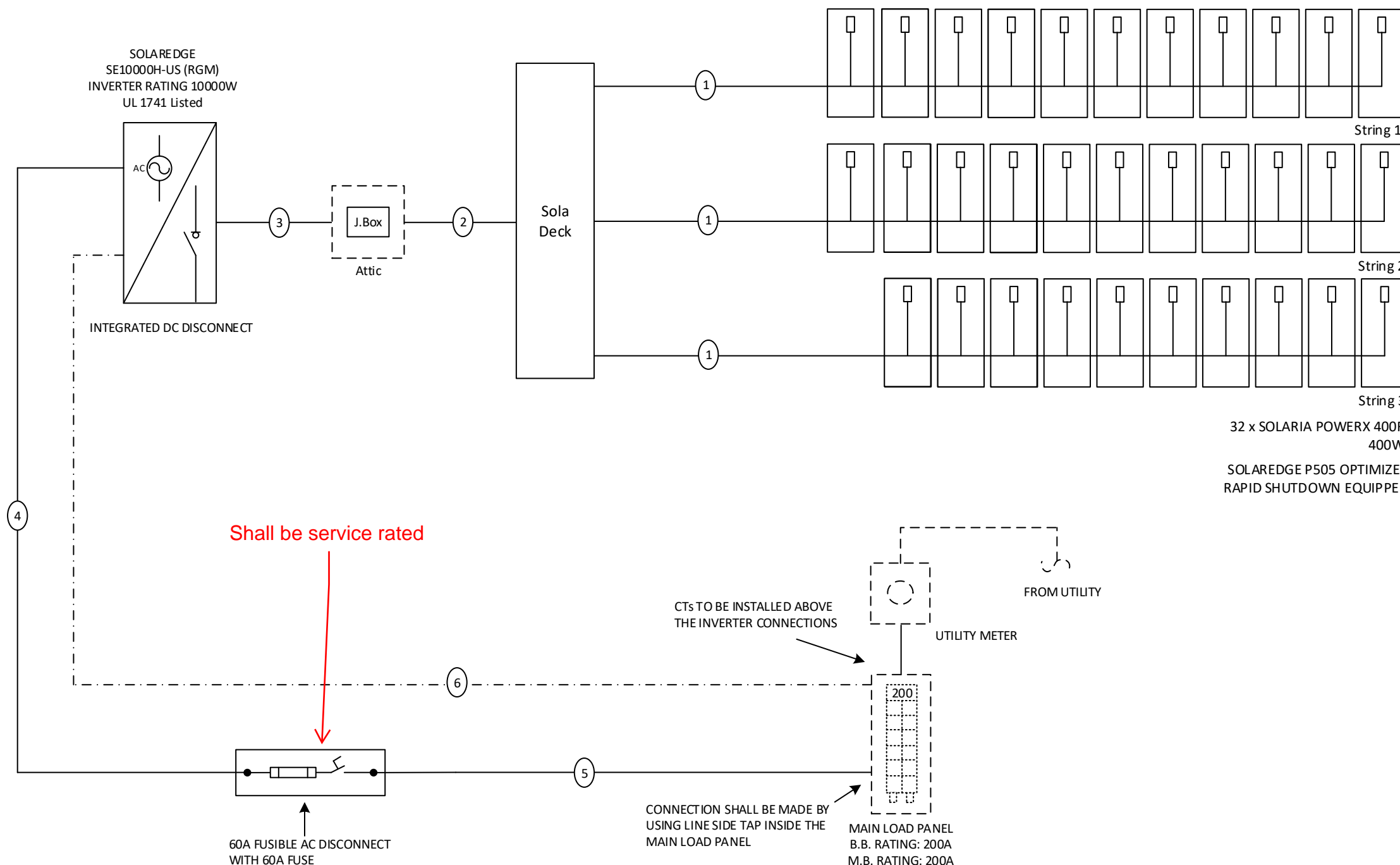
PERMITTING

SHEET

ELECTRICAL ONE LINE DIAGRAM

JJ

22240JJ00-3



**ELECTRICAL NOTES**

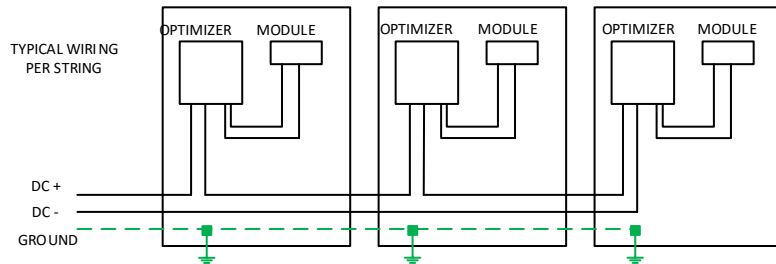
- System Size: 12,800W DC
- (32) SOLARIA POWERX-400R
- (32) SOLAREEDGE P505 OPTIMIZERS
- (01) SOLAREEDGE SE10000H-US (RGM)
- Inverter Output: 42A max @ 240 VAC
- 10.0 kVA AC output max

- Grounding will be done via Pegasus grounding mid-clamps and NS bonding jumpers to ensure the rail and panels are continuously grounded.
- Rapid Shutdown is included in the Inverter, refer to inverter & optimizer attached datasheets.
- The load center / disconnect will be visible, lockable accessible to utility linesmen and will be properly labelled as per NEC requirements. It will be located on the exterior wall of the building, next to the utility meter.

**STRING 1&2:**  
11 x 400W = 4,400W ea  
I<sub>mpp</sub> = 11 Adc  
I<sub>max</sub> = 23.4 Adc  
V<sub>mpp</sub> = 400 Vdc  
V<sub>oc</sub> = 11 Vdc

**STRING 3:**  
10 x 400W = 4,000W ea  
I<sub>mpp</sub> = 10 Adc  
I<sub>max</sub> = 23.4 Adc  
V<sub>mpp</sub> = 400 Vdc  
V<sub>oc</sub> = 10 Vdc

Sr.No	#Wire	Conduit Size	Ground Wire	Amperage
1	2 x #10 PV		#10 Bare CU	23.4A
2	3 x #10 MC Cable			
3	6 x #10 THHN Cu	3/4" EMT	#10 Green	
4	3 x #6 THHN Cu	3/4" EMT	#8 Green	52.5A
5	3 x #6 THHN Cu	3/4" EMT		52.5A
6	Shielded CAT5e			



Line 1	
Line 2	
Neutral	
Ground	

### DIP SWITCH CONFIGURATION

<input checked="" type="checkbox"/>	0	OFF
<input type="checkbox"/>	1	ON

**Note**

- The arrow on the 225A CTs should face the grid.

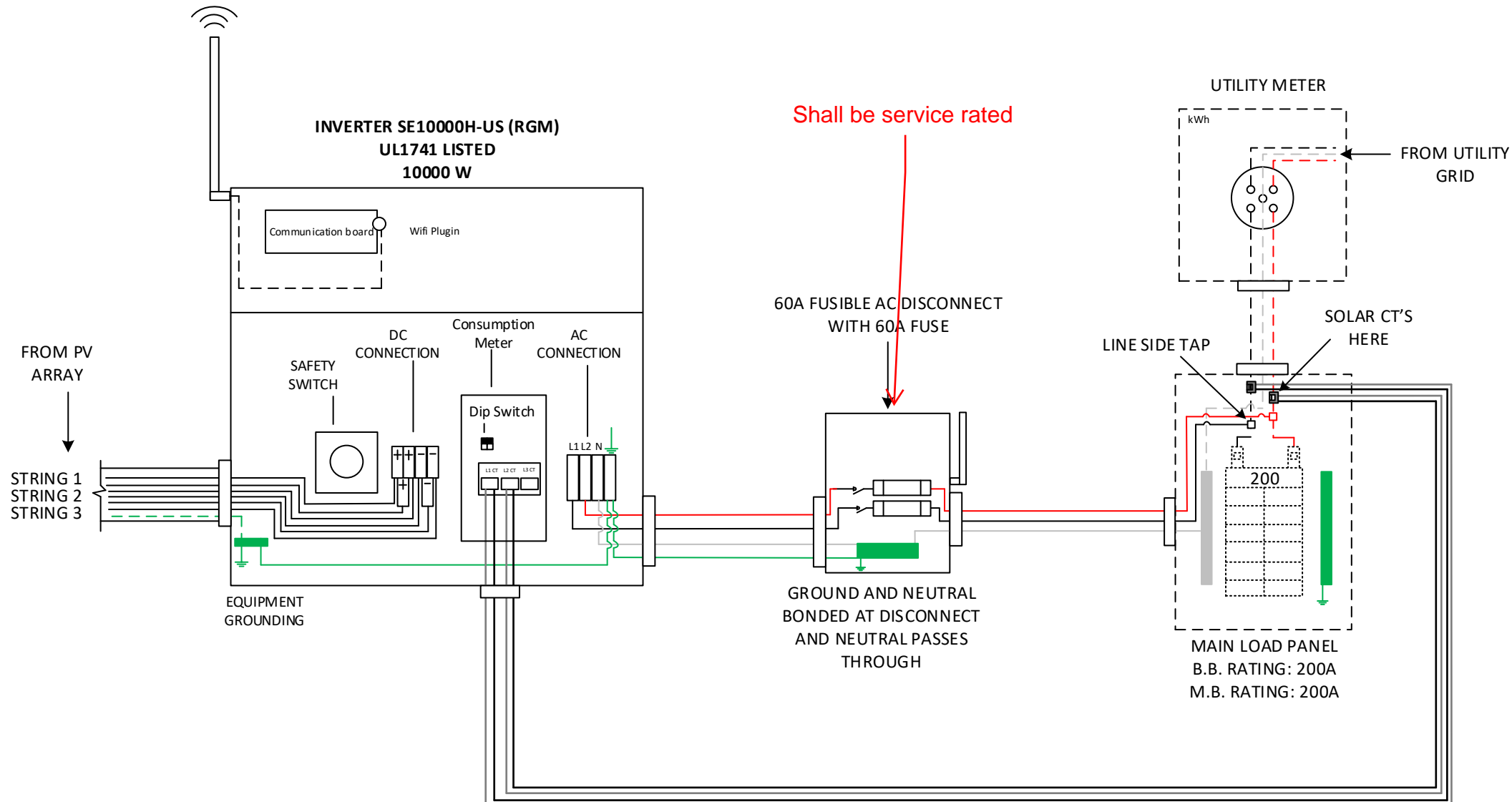
**Note**

- Dip switch settings are factory set to address 1



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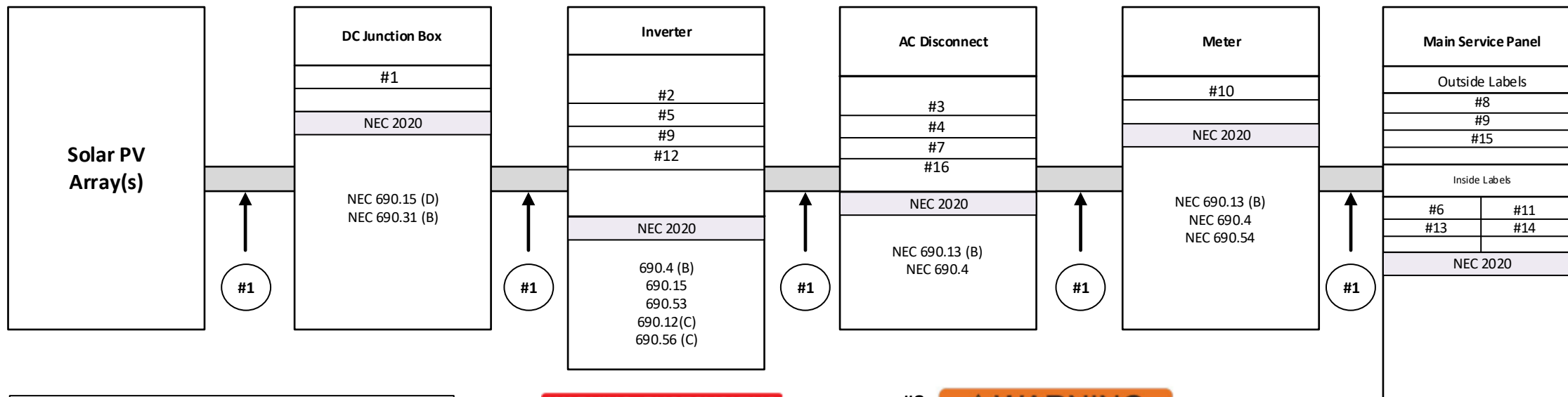
Customer's Signature

JOB NUMBER  
22-240-JJ00

PROJECT STATUS  
PERMITTING

SHEET  
DETAILED ELECTRICAL DIAGRAM

JJ  
22240JJ00-4



## LABELING AND WARNING SIGNS

### A. PURPOSE

PROVIDE EMERGENCY RESPONDERS WITH APPROPRIATE WARNING AND GUIDANCE WITH RESPECT TO ISOLATING THE SOLAR ELECTRIC SYSTEM. THIS CAN FACILITATE IDENTIFYING ENERGIZED ELECTRICAL LINES THAT CONNECT THE SOLAR PANELS TO THE INVERTER, AS SHOULD NOT BE CUT WHEN VENTING FOR SMOKE REMOVAL.

### B. MAIN SERVICE DISCONNECT:

1. RESIDENTIAL BUILDINGS- THE MARKING MAY BE PLACED WITHIN THE MAIN SERVICE DISCONNECT. THE MARKING SHALL BE PLACED ON THE OUTSIDE COVER IF THE MAIN SERVICE DISCONNECT IS OPERABLE WITH THE SERVICE PANEL CLOSED.

2. COMMERCIAL BUILDINGS- THE MARKINGS SHALL BE PLACED ADJACENT TO THE MAIN SERVICE DISCONNECT CLEARLY VISIBLE FROM THE LOCATION WHERE THE LEVER IS OPERATED

3. MARKINGS, VERBIAGE, FOR MAT AND TYPE OF MATERIAL

- a. VERBIAGE: CAUTION ; SOLAR ELECTRIC SYSTEM CONNECTED
- b. FOR MAT:

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

c. MATERIAL:

- (1) REFLECTIVE, WEATHER RESISTANT MATERIAL SUITABLE FOR THE ENVIRONMENT (USE UL-969) AS STANDARD FOR WEATHER RATING); DURABLE ADHESIVE MATERIALS MEET THIS REQUIREMENT.

C. MARKING REQUIREMENTS ON DC CONDUIT, RACEWAYS, ENCLOSURES, CABLE ASSEMBLIES, DC COMBINERS AND JUNCTION BOXES;

1. MARKING: PLACEMENT, VERBIAGE, FOR MAT AND TYPE OF MATERIAL.

- a. PLACEMENT: MARKINGS SHALL BE PLACED EVERY 10 (TEN) FEET ON ALL INTERIOR AND EXTERIOR DC CONDUITS, RACEWAYS, ENCLOSURES AND CABLE ASSEMBLIES, AT TURNS ABOVE AND/OR BELOW PENETRATIONS, ALL DC COMBINERS AND JUNCTION BOXES.
- b. VERBIAGE: CAUTION SOLAR CIRCUIT
- c. THE FOR MAT AND TYPE OF MATERIAL SHALL ADHERE TO SECTION B-3.B & C ABOVE

D. INVERTERS ARE NOT REQUIRED TO HAVE CAUTION MARKINGS

#1 **WARNING: PHOTOVOLTAIC POWER SOURCE**

#2 **PHOTOVOLTAIC DC DISCONNECT**

#3 **PHOTOVOLTAIC AC DISCONNECT**

#4 **RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM**

#5 **MAXIMUM VOLTAGE**   
**MAXIMUM CIRCUIT CURRENT**   
**MAX. RATED OUTPUT CURRENT OF THE CHARGE CONTROLLER OR DC-TO-DC CONVERTER (IF INSTALLED)**

#6 **PHOTOVOLTAIC POWER SOURCE**  
**OPERATING AC VOLTAGE**  V  
**MAXIMUM OPERATING AC OUTPUT CURRENT**  A

#7 **AC DISCONNECT PHOTOVOLTAIC SYSTEM POWER SOURCE**  
**RATED AC OUTPUT CURRENT**  AMPS  
**NOMINAL OPERATING AC VOLTAGE**  VOLTS

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

#9 **WARNING**  
**DUAL POWER SUPPLY**  
 SOURCES: UTILITY GRID AND PV SOLAR ELECTRIC SYSTEM

#10 **WARNING**  
**THIS SERVICE METER IS ALSO SERVED BY A PHOTOVOLTAIC SYSTEM**

#11 **WARNING**  
**TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE PANEL**

#12 **WARNING**  
**BIPOLAR PHOTOVOLTAIC ARRAY**  
 DISCONNECTION OF NEUTRAL GROUNDED CONDUCTORS MAY RESULT IN OVERVOLTAGE ON ARRAY OR INVERTER

#13 **WARNING**  
**THIS EQUIPMENT FED BY MULTIPLE SOURCES. TOTAL RATING OF ALL OVERCURRENT DEVICES, EXCLUDING MAIN SUPPLY OVERCURRENT DEVICE, SHALL NOT EXCEED AMPACITY OF BUSBAR.**

#14 **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

#15 **SOLAR AC DISCONNECT LOCATED AT NORTH-WEST SIDE WALL OF THE HOUSE BESIDE THE UTILITY METER**

#16 **SERVICE DISCONNECT LOCATED IN MAIN LOAD PANEL**

A 07/01/2022

Customer's Signature

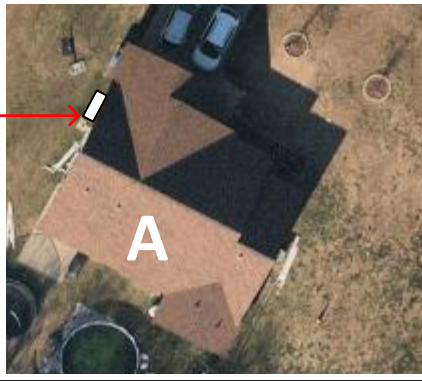
JOB NUMBER  
22-240-JJ00

PROJECT STATUS  
PERMITTING

SHEET  
PV LABELS

Rails and Splices : PSR-B84 (BLACK)	Roof Attachment : Pegasus Comp Mount
Rafter Spacing : 24 in	There is one layer of shingles Roofing material is asphalt shingles
Attachment Span: 4ft	The roof is located in 117mph wind zone

Utility Meter

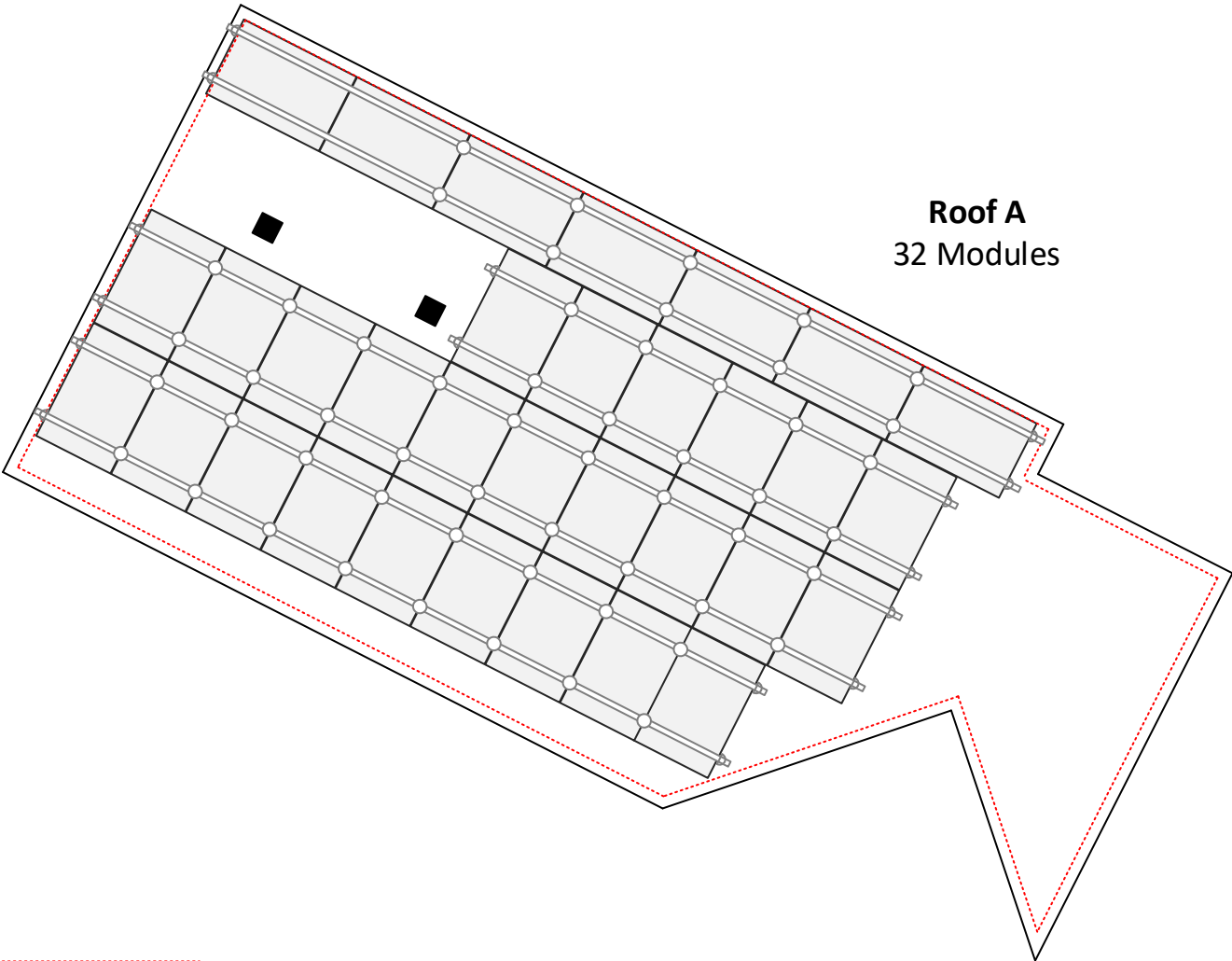


Module Dimension			
	Roofs	Pitch	Azimuth
A	33°	207°	



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Roof A  
32 Modules

6" clearance  
from each side  
of the roof

PV LABELS		
Sr No	Code	Qty
01	02-314	11
02	03-301	01
03	03-302	01
04	02-316	01
05	03-308	01
06	03-390	01
07	03-306	01
08	05-215	01
09	05-211	02
10	07-359	01
11	05-372	01
12	05-103	01
13	05-108	01
14	07-111	01
15	8M-001	01
16	8M-002	01

- 42 x PSR-B84: Pegasus Rail, Black, 84" (7 Feet)
- 34 x PSR-SPL: Pegasus - Bonded, Structural Splice
- 56 x PSR-MCB: Pegasus - Multiclamp, Mid/End, 30 to 40 mm, Black
- 16 x PSR-HEC: Pegasus - Hidden End Clamp
- 32 x PSR-MLP: Pegasus - MLPE Mount
- 04 x PSR-LUG: Pegasus - Grounding Lug
- 04 x PSR-NS J: Pegasus - N-S Bonding Jumper
- 48 x PSR-WMC: Pegasus - Wire Management Clip
- 06 x PSR-CBG: Pegasus - Cable Grip
- 16 x PSR-CAP: Pegasus - End Cap
- 70 x PSCR-UBBD T: Pegasus Comp Mount - Open Slot, Black L Foot, Black Flashing, Dovetail 3/8" T-Bolt
- 64 x Heyco Wire Clips

- SOLAR MODULES
- 32 x SOLARIA POWERX-400R
- INVERTER & SUPPORTING ITEMS
- 01 x Solar Edge SE10000H-US US000BNI4 (RGM)
  - 32 x SolarEdge Power Optimizer P505
  - 01 x SE-WFGW-B-S1-NA with Antenna kit
  - 02 x 225A SolarEdge CTs
- WIRE
- 500 ft x #10 PV WIRE BLK (Cu)

BILL OF MARERIAL  
SCALE: 1/8" - 1' 0"



A 07/01/2022

Customer's Signature

JOB NUMBER  
22-240-JJ00

PROJECT STATUS  
PERMITTING

SHEET  
BILL OF MATERIAL

JJ  
22240JJ00-6



### Solaria PowerX-400R Performance Series

Achieving over 20.5% efficiency, Solaria PowerX Performance solar panels feature Solaria's core cell cutting technology, offering higher-power and attractive black-on-black aesthetics compared to conventional solar panels. Solaria has been the market leader in cut-cell technologies for over a decade. With a comprehensive 25-year warranty, PowerX delivers the latest in power and reliability for homeowners.



#### High Efficiency, High Power

At 400 watts and 20.5% efficiency, Solaria PowerX solar panels are one of the highest power residential panels available.



#### High Quality and Reliability

State-of-the-art cell cutting technology and advanced panel construction ensure that PowerX panels are highly reliable and designed to far exceed the industry-leading 25-year warranty.



#### All Black Aesthetics

Compared to conventional panels, Solaria PowerX panels have a more uniform all-black appearance.



#### Best System Value

Solaria PowerX solar panels produce more power per square meter area. This reduces installation costs due to fewer balance of system components.



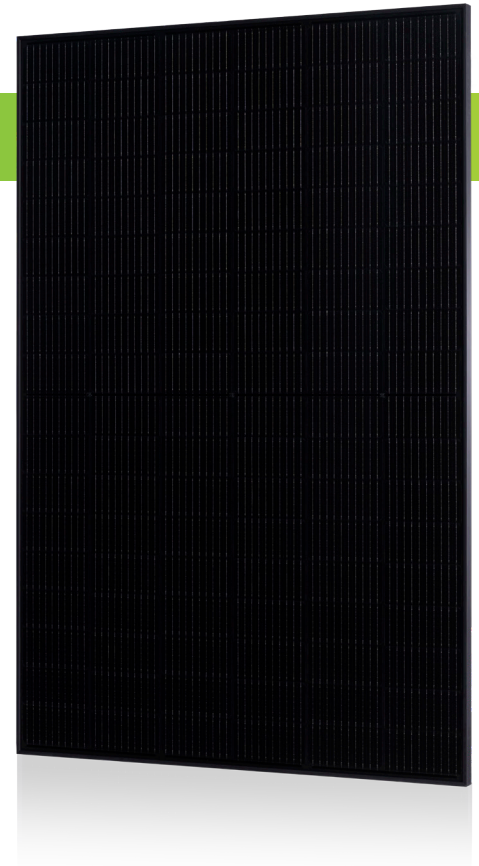
#### Improved Shading Tolerance

Sub-strings are interconnected in parallel, which dramatically lowers the shading losses and boosts energy yield.



#### Low Light Performance

PowerX maintains high efficiency at low irradiance further ensuring maximum energy yield.



### About Solaria

Established in 2000, The Solaria Corporation has created one of the industry's most respected IP portfolios, with over 250 issued and pending patents in PV solar cell and module technology. Headquartered in California, Solaria has developed a technology platform that unlocks the potential of solar energy.



### Performance at STC (1000W/m<sup>2</sup>, 25° C, AM 1.5)

Solaria PowerX-		390R	395R	400R
Max Power (P <sub>max</sub> )	[W]	390	395	400
Efficiency	[%]	20.0	20.2	20.5
Open Circuit Voltage (V <sub>oc</sub> )	[V]	36.9	37.1	37.3
Short Circuit Current (I <sub>sc</sub> )	[A]	13.52	13.60	13.68
Max Power Voltage (V <sub>mp</sub> )	[V]	30.6	30.8	31.0
Max Power Current (I <sub>mp</sub> )	[A]	12.73	12.82	12.9
Power Tolerance	[%]	-0/+3	-0/+3	-0/+3

### Performance at NOCT (800W/m<sup>2</sup>, 20° C Amb, Wind 1 m/s, AM 1.5)

Max Power (P <sub>max</sub> )	[W]	290	293	297
Open Circuit Voltage (V <sub>oc</sub> )	[V]	34.3	34.5	34.7
Short Circuit Current (I <sub>sc</sub> )	[A]	11.01	11.10	11.13
Max Power Voltage (V <sub>mp</sub> )	[V]	28.50	28.60	28.76
Max Power Current (I <sub>mp</sub> )	[A]	10.20	10.26	10.32

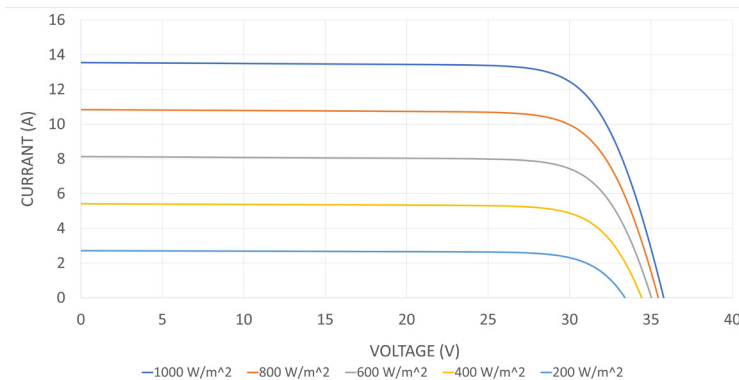
### Temperature Characteristics

NOCT	[°C]	45 +/-2
Temp. Coeff. of P <sub>max</sub>	[% / °C]	-0.36
Temp. Coeff. of V <sub>oc</sub>	[% / °C]	-0.28
Temp. Coeff. of I <sub>sc</sub>	[% / °C]	0.048

### Design Parameters

Operating temperature	[°C]	-40 to +85
Max System Voltage	[V]	1000
Max Fuse Rating	[A]	25
Bypass Diodes	[#]	3

### IV Curves vs. Irradiance (400W Panel)



### Mechanical Characteristics

Cell Type	Monocrystalline Silicon
Dimensions (L x W x H)	67.8" x 44.7" x 1.4"
	1723mm x 1134mm x 35mm
Weight	22.1 kg / 48.7 lbs
Glass Type / Thickness	AR Coated, Tempered / 3.2mm
Frame Type	Black Anodized Aluminum
Cable Type / Length	12 AWG PV Wire (UL) / 1100mm
Connector Type	MC4
Junction Box	IP68 / 3 diodes
Front Load	5400 Pa / 113 psf*
Rear Load	2400 Pa / 50 psf*

\* Refer to Solaria Installation Manual for details

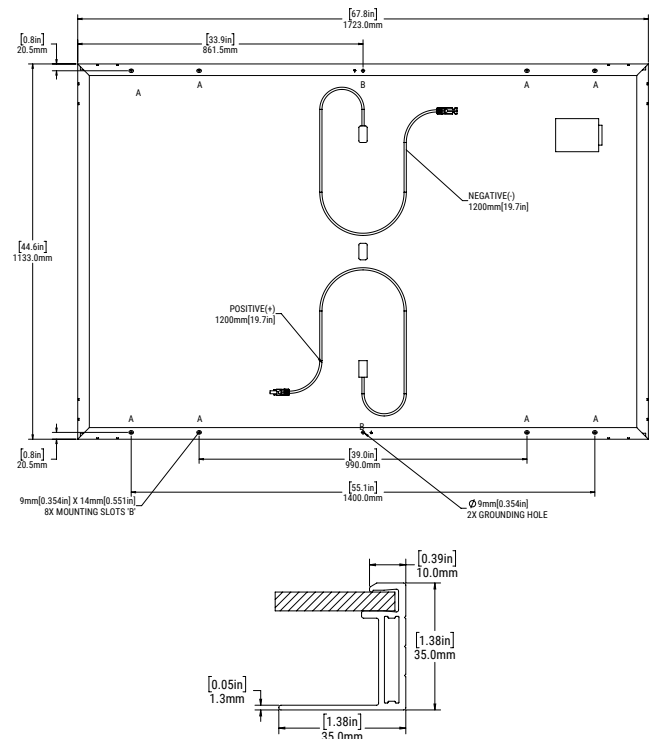
### Certifications / Warranty

Certifications	UL 61730 / IEC 61215 / IEC 61730
Fire Type (UL 1703)	2
Power, Parts & Labor Warranty	25 years*

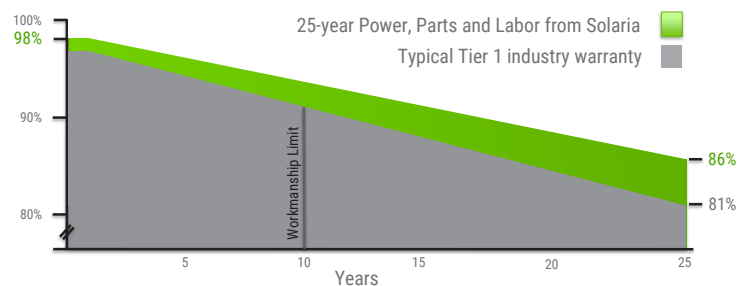
\* Warranty details at [www.solaria.com](http://www.solaria.com)

### Packaging

Stacking Method	Vertical / Palletized
Panels/ Pallet	31
Pallet Dims (L x W x H)	69.3" x 44.3" x 49.3"
	1760mm x 1125mm x 1253mm
Pallet Weight	745 kg / 1642 lbs
Pallets / 40-ft Container	26
Panels / 40-ft Container	806



### Comprehensive 25-Year Warranty



# Single Phase Inverter with HD-Wave Technology

for North America

SE3000H-US / SE3800H-US / SE5000H-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 the SolarEdge SetApp
- / Fixed voltage inverter for longer strings
- / Integrated arc fault protection and rapid shutdown for NEC 2014, NEC 2017 and NEC 2020 per article 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)

# / Single Phase Inverter with HD-Wave Technology for North America

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

MODEL NUMBER	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	
APPLICABLE TO INVERTERS WITH PART NUMBER	SEXXXXH-XXXXXBXX4							
<b>OUTPUT</b>								
Rated AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	VA
Maximum AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	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>(1)</sup>							Hz
Maximum Continuous Output Current @240V	12.5	16	21	25	32	42	47.5	A
Maximum Continuous Output Current @208V	-	16	-	24	-	-	48.5	A
Power Factor	1, Adjustable - 0.85 to 0.85							
GFDI Threshold	1							A
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes							
<b>INPUT</b>								
Maximum DC Power @240V	4650	5900	7750	9300	11800	15500	17650	W
Maximum DC Power @208V	-	5100	-	7750	-	-	15500	W
Transformer-less, Ungrounded	Yes							
Maximum Input Voltage	480							Vdc
Nominal DC Input Voltage	380			400				Vdc
Maximum Input Current @240V <sup>(2)</sup>	8.5	10.5	13.5	16.5	20	27	30.5	Adc
Maximum Input Current @208V <sup>(2)</sup>	-	9	-	13.5	-	-	27	Adc
Max. Input Short Circuit Current	45							Adc
Reverse-Polarity Protection	Yes							
Ground-Fault Isolation Detection	600k $\Omega$ Sensitivity							
Maximum Inverter Efficiency	99	99.2						%
CEC Weighted Efficiency	99						99 @ 240V 98.5 @ 208V	%
Nighttime Power Consumption	< 2.5							W

(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

# / Single Phase Inverter with HD-Wave Technology for North America

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

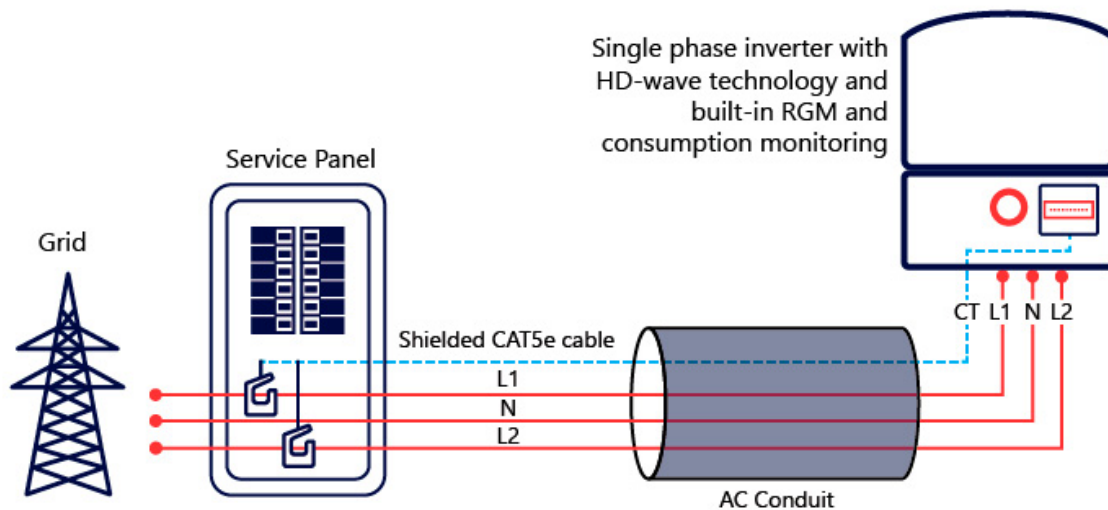
MODEL NUMBER	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	
<b>ADDITIONAL FEATURES</b>								
Supported Communication Interfaces	RS485, Ethernet, ZigBee (optional), Cellular (optional)							
Revenue Grade Metering, ANSI C12.20	Optional <sup>(3)</sup>							
Consumption metering								
Inverter Commissioning	With the SetApp mobile application using Built-in Wi-Fi Access Point for Local Connection							
Rapid Shutdown - NEC 2014, NEC 2017 and NEC 2020, 690.12	Automatic Rapid Shutdown upon AC Grid Disconnect							
<b>STANDARD COMPLIANCE</b>								
Safety	UL1741, UL1741 SA, UL1699B, CSA C22.2, Canadian AFCI according to T.I.L. M-07							
Grid Connection Standards	IEEE1547, Rule 21, Rule 14 (HI)							
Emissions	FCC Part 15 Class B							
<b>INSTALLATION SPECIFICATIONS</b>								
AC Output Conduit Size / AWG Range	1" Maximum / 14-6 AWG				1" Maximum /14-4 AWG			
DC Input Conduit Size / # of Strings / AWG Range	1" Maximum / 1-2 strings / 14-6 AWG				1" Maximum / 1-3 strings / 14-6 AWG			
Dimensions with Safety Switch (HxWxD)	17.7 x 14.6 x 6.8 / 450 x 370 x 174				21.3 x 14.6 x 7.3 / 540 x 370 x 185			
Weight with Safety Switch	22 / 10	25.1 / 11.4	26.2 / 11.9	38.8 / 17.6			lb / kg	
Noise	< 25				<50			dBA
Cooling	Natural Convection							
Operating Temperature Range	-40 to +140 / -40 to +60 <sup>(4)</sup>							°F / °C
Protection Rating	NEMA 4X (Inverter with Safety Switch)							

(3) Inverter with Revenue Grade Meter P/N: SExxxH-US000BNC4; Inverter with Revenue Grade Production and Consumption Meter P/N: SExxxH-US000BNI4 . For consumption metering, current transformers should be ordered separately: SEACT0750-200NA-20 or SEACT0750-400NA-20. 20 units per box

(4) Full power up to at least 50°C / 122°F; for power de-rating information refer to: <https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf>

## How to Enable Consumption Monitoring

By simply wiring current transformers through the inverter's existing AC conduits and connecting them to the service panel, homeowners will gain full insight into their household energy usage helping them to avoid high electricity bills



---

# Power Optimizer

For North America

P370 / P400 / P401 / P485 / P505

POWER OPTIMIZER



## PV power optimization at the module-level

- Specifically designed to work with SolarEdge inverters
- Up to 25% more energy
- Superior efficiency (99.5%)
- Mitigates all types of module mismatch losses, from manufacturing tolerance to partial shading
- Flexible system design for maximum space utilization
- Fast installation with a single bolt
- Next generation maintenance with module-level monitoring
- Meets NEC requirements for arc fault protection (AFCI) and Photovoltaic Rapid Shutdown System (PVRSS)
- Module-level voltage shutdown for installer and firefighter safety

# / Power Optimizer

## For North America

### P370 / P400 / P401 / P485 / P505

Optimizer model (typical module compatibility)	P370 (for higher-power 60 and 72-cell modules)	P400 (for 72 & 96- cell modules)	P401 (for high power 60 and 72 cell modules)	P485 (for high-voltage modules)	P505 (for higher current modules)		
<b>INPUT</b>							
Rated Input DC Power <sup>(1)</sup>	370	400	430	485	505	W	
Absolute Maximum Input Voltage (Voc at lowest temperature)	60	80	60	125 <sup>(2)</sup>	83 <sup>(2)</sup>	Vdc	
MPPT Operating Range	8 - 60	8 - 80	8-60	12.5 - 105	12.5 - 83	Vdc	
Maximum Short Circuit Current (Isc)	11	10.1	12.5	11	14	Adc	
Maximum DC Input Current	13.75	12.5	14.65	12.5	17.5		
Maximum Efficiency						99.5	%
Weighted Efficiency						98.8	%
Overvoltage Category						II	
<b>OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING SOLAREEDGE INVERTER)</b>							
Maximum Output Current						15	Adc
Maximum Output Voltage	60			80		Vdc	
<b>OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM SOLAREEDGE INVERTER OR SOLAREEDGE INVERTER OFF)</b>							
Safety Output Voltage per Power Optimizer						1 ± 0.1	Vdc
<b>STANDARD COMPLIANCE</b>							
EMC	FCC Part 15 Class B, IEC61000-6-2, IEC61000-6-3						
Safety	IEC62109-1 (class II safety), UL1741, NEC/PVRSS						
Material	UL94 V-0 , UV Resistant						
RoHS	Yes						
<b>INSTALLATION SPECIFICATIONS</b>							
Maximum Allowed System Voltage	1000					Vdc	
Compatible inverters	All SolarEdge Single Phase and Three Phase inverters						
Dimensions (W x L x H)	129 x 153 x 27.5 / 5.1 x 6 x 1.1	129 x 153 x 33.5 / 5.1 x 6 x 1.3	129 x 153 x 29.5 / 5.1 x 6 x 1.16	129 x 159 x 49.5 / 5.1 x 6.3 x 1.9	129 x 162 x 59 / 5.1 x 6.4 x 2.3	mm / in	
Weight (including cables)	630 / 1.4	750 / 1.7	655 / 1.5	845 / 1.9	1064 / 2.3	gr / lb	
Input Connector	MC4 <sup>(3)</sup>			MC4 <sup>(3)</sup>	MC4 <sup>(3)</sup>		
Input Wire Length	0.16 / 0.5					m / ft	
Output Wire Type / Connector	Double Insulated / MC4						
Output Wire Length	1.2 / 3.9					m / ft	
Operating Temperature Range <sup>(4)</sup>	-40 to +85 / -40 to +185					°C / °F	
Protection Rating	IP68 / Type6B						
Relative Humidity	0 - 100					%	

(1) Rated power of the module at STC will not exceed the optimizer "Rated Input DC Power". Modules with up to +5% power tolerance are allowed

(2) NEC 2017 requires max input voltage be not more than 80V

(3) For other connector types please contact SolarEdge

(4) Longer inputs wire lengths are available for use. For 0.9m input wire length order P401-xxxLxxx

(5) For ambient temperature above +85°C / +185°F power de-rating is applied. Refer to Power Optimizers Temperature De-Rating Technical Note for more details: <https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf>

PV System Design Using a SolarEdge Inverter <sup>(6)(7)</sup>	Single Phase HD-Wave	Single phase	Three Phase for 208V grid	Three Phase for 277/480V grid	
Minimum String Length (Power Optimizers)	P370, P400, P401	8	10	18	
	P485, P505	6	8	14	
Maximum String Length (Power Optimizers)	25		25	50	
Maximum Power per String	5700 <sup>(8)</sup> (6000 with SE7600-US - SE11400-US)	5250 <sup>(8)</sup>	6000 <sup>(9)</sup>	12750 <sup>(10)</sup>	W
Parallel Strings of Different Lengths or Orientations	Yes				

(6) For detailed string sizing information refer to: [http://www.solaredge.com/sites/default/files/string\\_sizing\\_na.pdf](http://www.solaredge.com/sites/default/files/string_sizing_na.pdf)

(7) It is not allowed to mix P485/P505 with P370/P400/P401 in one string

(8) A string with more than 30 optimizers does not meet NEC rapid shutdown requirements; safety voltage will be above the 30V requirement

(9) For 208V grid: it is allowed to install up to 6,500W per string when the maximum power difference between each string is 1,000W

(10) For 277/480V grid: it is allowed to install up to 15,000W per string when the maximum power difference between each string is 2,000W

Subject: ETL Evaluation of SolarEdge Products to Rapid Shutdown Requirements

To, whom it may concern

This letter represents the testing results of the below listed products to the requirements contained in the following standards:

The evaluation was done on the PV Rapid Shutdown System (PVRSS), and covers installations consisting of optimizers and inverters with part numbers listed below.

The testing done has verified that controlled conductors are limited to:

- Not more than 30 volts and 240 voltamperes within 30 seconds of rapid shutdown initiation outside the array.
- Not more than 80 volts and 240 voltamperes within 30 seconds of rapid shutdown initiation inside the array.

The rapid shutdown initiation is performed by either disconnecting the AC feed to the inverter, or – if the inverter DC Safety switch is readily accessible – by turning off the DC Safety switch.

**Applicable products:**

(1) Power optimizers:

PB followed by 001 to 350; followed by -AOB or -TFI.

OP followed by 001 to 500; followed by -LV, -MV, -IV or -EV.

P followed by 001 to 1100.

SP followed by 001 to 350.

When optimizers are connected to 2 or more modules in series, the max input voltage may exceed 80V. Following the implementation of the NEC 2017 rapid shutdown value of 80V max inside of the array at the beginning of 2019, modules exceeding this combined input max voltage will be required to use optimizers with parallel inputs. Also meeting NEC 2020 rapid shutdown requirement.

(2) 1 -PH Inverters

SE3000A-US / SE3800A-US / SE5000A-US / SE6000A-US / SE7600A-US / SE10000A-US / SE11400A-US / SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US when the following label is labeled on the side of the inverter:

Inverter part number may be followed by a suffix.

(3) 3 -PH Inverters



Total Quality. Assured.


Intertek  
3933 US Route 11  
Cortland, NY 13045  
Telephone: 607-753-7311  
www.intertek.com

SE9KUS / SE10KUS / SE14.4KUS/ SE16.7kUS / SE17.3kUS / SE20KUS/ SE24KUS / SE30KUS / SE33.3KUS / SE40KUS / SE43.2KUS / SE50KUS / SE66.6KUS / SE80KUS / SE85KUS / SE100KUS / SE120KUS; when the following label is labeled on the side of the inverter:

Please note, this Letter Report does not represent authorization for the use of any Intertek certification marks.

<b>Brand Name(s)</b>	SolarEdge
<b>Relevant Standard(s)</b>	UL 1741, UL 1741 CRD for rapid shutdown  National Electric Code, 2020, Section 690.12 requirement for rapid shutdown
<b>Verification Issuing Office</b>	3933 US Route 11, Cortland, NY 13045

NRTL Disclaimer, Different for each NRTL – Example: *"This Verification is for the exclusive use of NRTL's Client and is provided pursuant to the agreement between NRTL and its Client. NRTL's responsibility and liability are limited to the terms and conditions of the agreement. NRTL assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Verification. Only the Client is authorized to copy or distribute this Verification. Any use of the NRTL name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by NRTL. The observations and test results referenced from this Verification are relevant only to the sample tested. This Verification by itself does not imply that the material, product, or service is or has ever been under an NRTL certification program."*

Signature: 

Name: Mukund Rana  
Position: Staff Engineer  
Date:5/17/2021



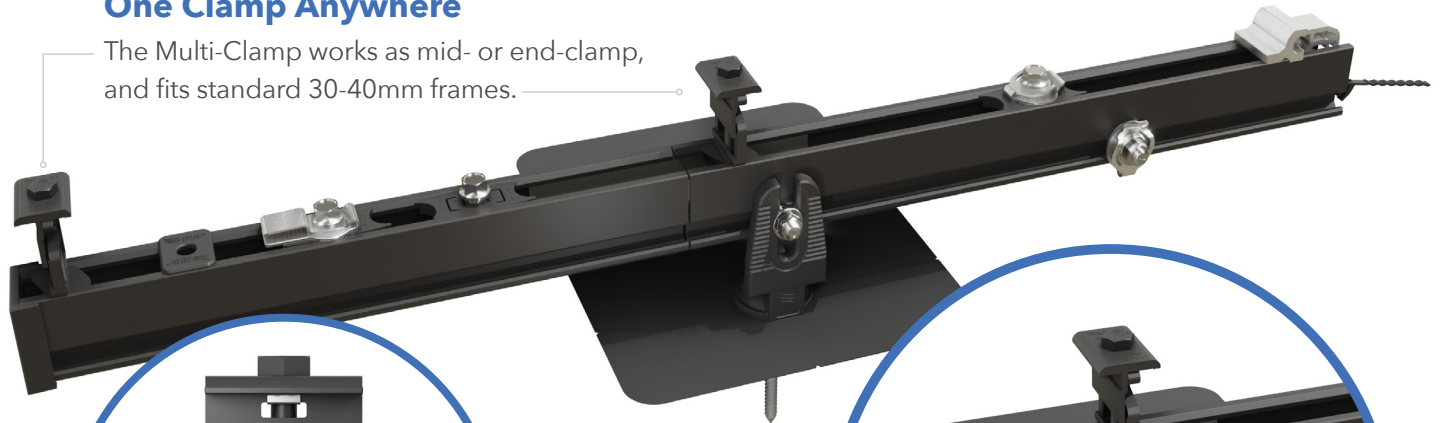
<b>Date</b>	<b>Engineer / Reviewer</b>	<b>Description</b>
5/17/2021 G104683664CRT	Dishant Patel  Mukund Rana	Added New 3-PH Inverter model SE50KUS, SE80KUS, SE85KUS and SE120KUS.  Updated Power optimizers from "P followed by 001 to 960" to "P followed by 001 to 1100"  Updated NEC standard from "National Electric Code, 2017, Section 690.12 requirement for rapid shutdown" To "National Electric Code, 2020, Section 690.12 requirement for rapid shutdown"

## One Clamp Anywhere

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

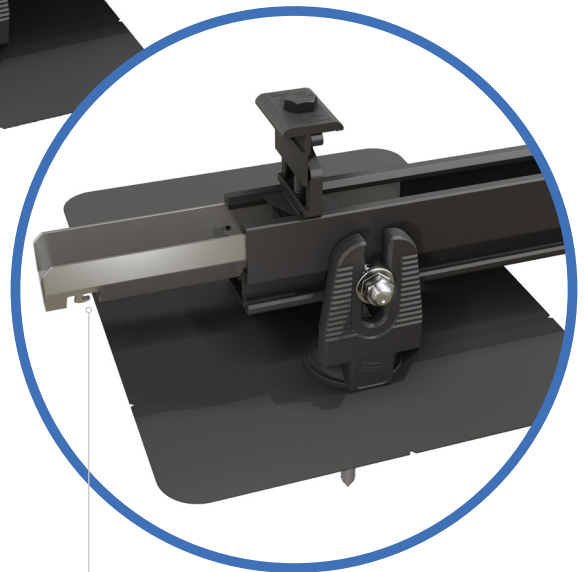
## Instant Bonding

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



## 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



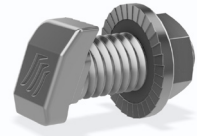
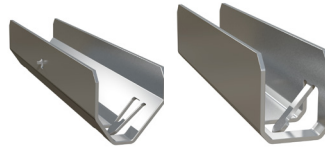
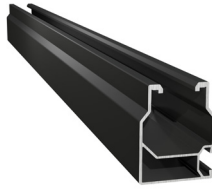
### Premium Aesthetics

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

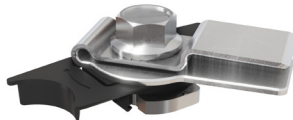
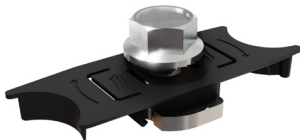
Offers premium edge appearance.  
Preinstalled pull-tab grips rail edge, allowing easy, one-hand installation.  
Tucks away for reuse.

### 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



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

LOAD		SPAN			
SNOW (PSF)	WIND (MPH)	32"	4'	6'	8'
0	120	PEGASUS RAIL			
	160	PEGASUS RAIL			PEGASUS MAX RAIL
	190	PEGASUS RAIL		PEGASUS MAX RAIL	
15	140	PEGASUS RAIL			PEGASUS MAX RAIL
	160	PEGASUS RAIL		PEGASUS MAX RAIL	
30	160	PEGASUS RAIL		PEGASUS MAX RAIL	
	190	PEGASUS RAIL		PEGASUS MAX RAIL	
45	190	PEGASUS RAIL		PEGASUS MAX RAIL	
70	190	PEGASUS RAIL		PEGASUS MAX RAIL	
110	190	PEGASUS RAIL		PEGASUS MAX RAIL	

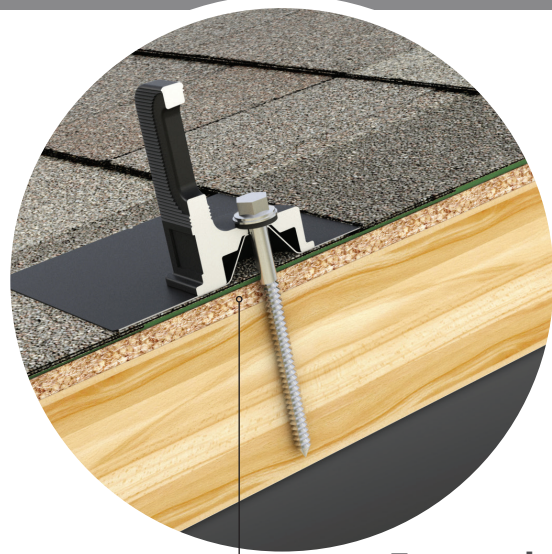
For reference only. Spans above are calculated using ASCE 7-16 for a Gable Roof, Exposure Category B, 7-20deg roof angle, 30ft mean roof height with non-exposed modules. For PE certified span tables, visit [www.pegasussolar.com/spans](http://www.pegasussolar.com/spans).

Patents pending. All rights reserved. ©2021 Pegasus Solar Inc.

# COMP MOUNT

## One-Piece Flashing with Elevated Cone

No press-fits or deck-level EPDM washers to fail



## Encapsulating Design

Raises the water seal 0.9" Above roof deck



## Simple 3-Piece Design Watertight For Life

Pegasus solar's comp mounts are a cost effective, high-quality option for rail installations on composition shingle roofs. Designed to last decades, the one-piece flashing with elevated cone means there is simply nothing to fail.



### 25-Year Warranty

Manufactured with advanced materials and coatings to outlast the roof itself



### Code Compliant

Fully IBC/CBC Code Compliant  
Exceeds ASCE 7-16 Standards



### Superior Waterproofing

Tested to AC286 without sealant  
Water seal elevated 0.9" above

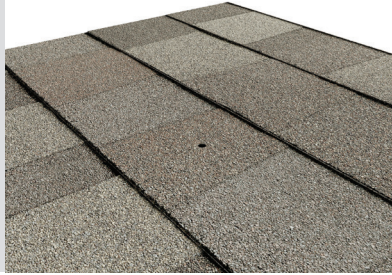


### All-In-One Kit Packaging

Flashings, L-Feet and SS lags with bonded EPDM washers are included in each 24-pack

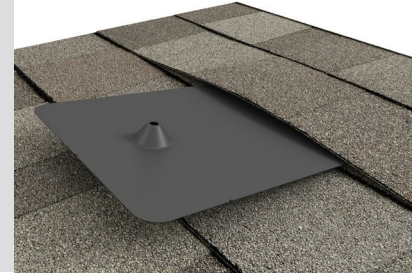
**1**

Drill pilot hole in the center of the rafter.



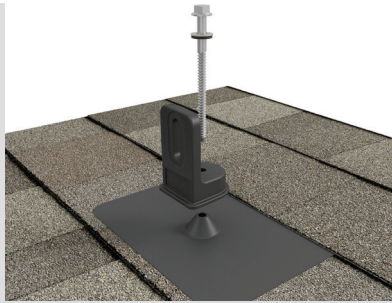
**2**

Optional: Apply a “u-shape” of sealant to the underside of the flashing and position under 2nd shingle course, cone over pilot hole.



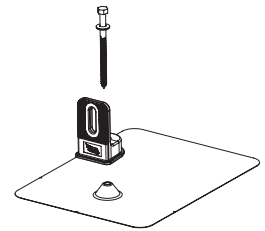
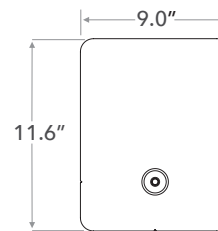
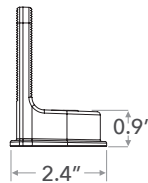
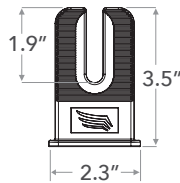
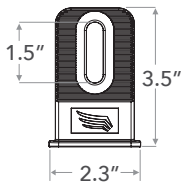
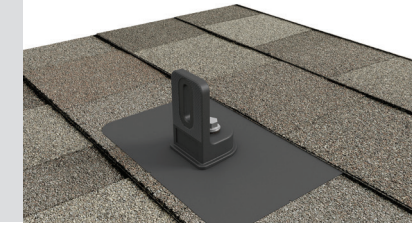
**3**

Place L-Foot over cone and install lag with washer through L-Foot.



**4**

Drive lag to required depth. Attach rail per rail manufacturer’s instructions.



SPECIFICATIONS	COMP MOUNT INSTALL KITS				
SKU	PSCR-CBB0	PSCR-UBB0	SPCR-CBBH	PSCR-CMM0	PSCR-UMM0
Finish	Black L-Foot And Black Flashing			Mill	
L-Foot Type	Closed Slot	Open Slot	Closed Slot	Closed Slot	Open Slot
Kit Contents	L-Foot, Flashing, 5/16" x 4 1/2" SS Lag with metalized EPDM washer	L-Foot, Flashing, 5/16" x 4 1/2" SS Lag with metalized EPDM washer and M10 Hex Bolt	L-Foot, Flashing, 5/16" x 4 1/2" SS Lag with metalized EPDM washer	L-Foot, Flashing, 5/16" x 4 1/2" SS Lag with metalized EPDM washer	L-Foot, Flashing, 5/16" x 4 1/2" SS Lag with metalized EPDM washer
Roof Type	Composition Shingle				
Certifications	IBC, ASCE/SEI 7-16, AC286				
Install Application	Railed Systems				
Compatible Rail	Most				
Kit Quantity	24				
Boxes per Pallet	72				

Protected under US Patent: 10,998,847. Additional patents pending. All rights reserved. ©2021 Pegasus

# SolaDeck

PV ROOF-MOUNT ENCLOSURE

**INTRODUCED AT  
*SOLAR POWER 2007***



**UL50 Type 3R Enclosure • Stamped 18 gauge gal. steel • Powder coated finish  
• Weather tight**



## **Enclosure Includes:**

- Dual ground lug
- Universal DIN rail
- 1/2", 3/4" & 1" knockouts
- Wire strain relief clip
- Complete hardware package

## **PV Roof-Mount Combiner/Enclosure**

### **Benefits**

- The ability to prep the building is now possible
- Replaces several parts used today
- Provides professional looking install
- Saves time on install
- Allows for easy access
- Guaranteed seal to roof
- Low profile design

***For product information contact us at  
(866) 367-7782***

**[www.commdeck.com](http://www.commdeck.com)**



RSTC Enterprises, Inc  
2219 Heimstead Road  
Eau Claire, WI 54703  
1 (866) 367 - 7782



## **SolaDeck Part # 780**

### **Specifications:**

**18 Gauge Steel Base (1) and Cover (2)  
Pre Punched 7 holes in base (1) for roof deck  
Pre Punched 4 holes in base (1) and cover (2) for match  
Draw Process both parts  
Powder Coated to withstand 1000 hours Salt Spray (Primer Gray)  
High UV resistance  
15" x 15" flashing dimension  
Cavity dimension 8"W x 9" L x 2.5"D  
Approx. 162 Cubic inch equipment cavity  
Norloked steel base plate (3) to drawn base (2)  
Three knockout locations .5", .75" and 1"  
3" DIN rail installed  
Grounding Lug- Installed (In Equipment Cavity)  
Wire Strain Relief Clip –Installed (In Equipment Cavity)  
Hardware pack withstands 500 hours Salt Spray  
    7 - 2" Trusshead Screws  
    4 - .5" 8-32 thread cutting screws  
    4 - #10 Bonded Seal washers  
    1 – Foam closed Cell Seal  
ETL Listed UL50 Type 3R**

**Total Weight 6.9 pounds each**

### **Packaging:**

**Individually bagged and boxed  
Box dimension 15.5"w x 16" L x 3" D  
White Carton labeled with Cut out template  
Print One Color - Black**

**Master Cartons of 6 Units each  
Master Carton dimension 18.75"x16"x16.375"  
Master Carton Weight – 42 pounds  
18 Master Cartons per skid Approx 800 pounds with skid**

# Product data sheet

Specifications

SQUARE D

Green Premium™



Safety switch, general duty, fusible, 60A, 2 poles, 15 hp, 120 VAC, NEMA 3R, bolt-on provision, neutral factory installed

D222NRB

Product availability : Stock - Normally stocked in distribution facility

Price\* : 326.00 USD

## Main

Product	Single Throw Safety Switch
Duty Rating	General duty
Device Application	Residential
Disconnect Type	Fusible disconnect switch
Factory Installed Neutral	Neutral (factory installed)
Phase	3 phase
Number of Poles	2
Current Rating	60 A
Voltage Rating	240 V AC
Enclosure Rating NEMA	NEMA 3R
Maximum Horse Power Rating	1.5 hp 120 V at AC 60 Hz for 1 phase conforming to NEC 240.6 3 hp 120 V at AC 60 Hz for 3 phase conforming to NEC 430.52 3 hp 240 V at AC 60 Hz for 1 phase conforming to NEC 240.6 7.5 hp 240 V at AC 60 Hz for 3 phase conforming to NEC 240.6 10 hp 240 V at AC 60 Hz for 1 phase conforming to NEC 430.52 15 hp 240 V at AC 60 Hz for 3 phase conforming to NEC 430.52

## Complementary

Short Circuit Current Rating	100 kA maximum depending on fuse H, K or R
Fuse type	H, K or R
Mounting Type	Surface
Electrical Connection	Lugs
Wiring configuration	3-wire
Wire Size	AWG 12...AWG 3 aluminium AWG 14...AWG 3 copper
Tightening torque	35 lbf.in (3.95 N.m) 0.00...0.01 in <sup>2</sup> (2.08...5.26 mm <sup>2</sup> ) (AWG 14...AWG 10) 35 lbf.in (3.95 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 (5.65 N.m) 0.04 in <sup>2</sup> (26.67 mm <sup>2</sup> ) (AWG 3)
Depth	4.87 in (123.70 mm)
Width	7.45 in (189.23 mm)

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



Height	14.88 in (377.95 mm)
Product Weight	8.82 lb(US) (4 kg)

## Environment

Certifications	UL listed file E2875
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## Ordering and shipping details

Category	00106-D & DU SW,NEMA3R, 30-200A
Discount Schedule	DE1A
GTIN	785901460640
Nbr. of units in pkg.	1
Package weight(Lbs)	8.25 lb(US) (3.742 kg)
Returnability	Yes
Country of origin	US

## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	5.20 in (13.208 cm)
Package 1 width	7.70 in (19.558 cm)
Package 1 Length	16.20 in (41.148 cm)
Unit Type of Package 2	PAL
Number of Units in Package 2	120
Package 2 Weight	1022.00 lb(US) (463.571 kg)
Package 2 Height	45.00 in (114.3 cm)
Package 2 width	40.00 in (101.6 cm)
Package 2 Length	48.00 in (121.92 cm)

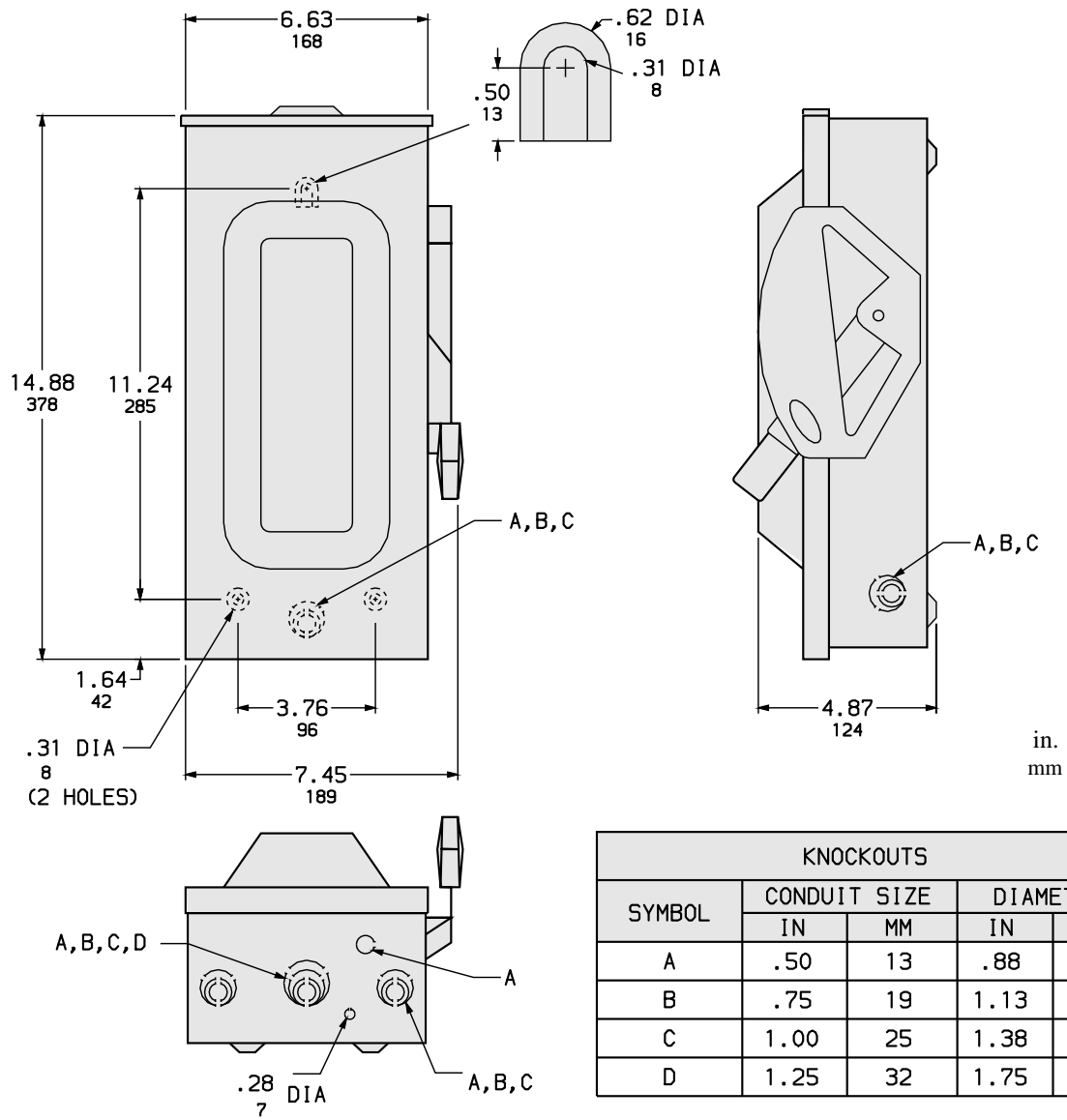
## Offer Sustainability

Sustainable offer status	Green Premium product
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>
REACH Regulation	<a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS declaration</a> Product out of China RoHS scope. Substance declaration for your information.
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
PVC free	Yes

## Contractual warranty

Warranty	18 months
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**Dimensions**

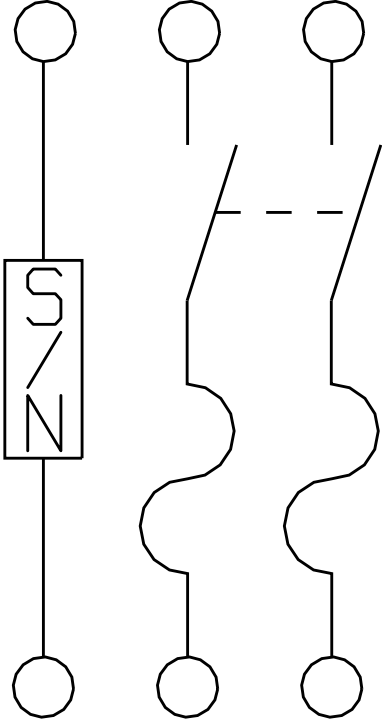


ALL DIMENSIONS ARE APPROXIMATE.  
 REFER TO TECHNICAL DRAWINGS AND DOCUMENTS

Wiring Diagram

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FUSIBLE



D222NRB