PROJECT DETAILS		
PV Modules	29 x SOLARIA POWERX 400R	
Optimizers	29 x P505	
Inverter	1 x SE10000H-US (RGM)	
Roof Type	Asphalt Shingles	
Racking	PSR-B84 Rails (Black)	
Mounting Type	CompMount Flashing (Black)	
DC SIZE	11.6 kW	
AC SIZE	10.0 kVA	

DRAWING INDEX			
Item	Item Drawing # Rev Description		Description
1	22224BB00-0	Α	Drawing Index
2	22224BB00-1	А	Site Layout
3	22224BB00-2	Α	String Mapping
4	22224BB00-3	Α	Electrical One Line Diagram
5	22224BB00-4	Α	Detailed Electrical Wiring Schematic
6	22224BB00-5	А	PV Labels
7	22224BB00-6	Α	Bill of Materials
8	22224BB00-7	А	PV Dead Load

# TOP VIEW OF BUILDING





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

> 255 Wyndham Place Drive Fuquay-Varina NC 27526

# **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.



Ali Buttar PVIP #031310-32

Professional

<u>A</u> _	06/28/2022	
_		
_		
	_	

Customer's Signature

JOB NUMBER

22-224-BB00

PROJECT STATUS

PERMITTING

SHEET

DRAWING INDEX

BB 22224BB00-0

There is one layer of shingles Roofing material is asphalt shingles

The roof is located in 116mph wind zone

6" clearance from

each side of the

roof



		Module Dimension		
		Roofs	Pitch	Azimuth
		А	36°	136°
	Utility	В	23°	46°
	Meter	С	37°	136°
		D	39°	226°
		E	39°	226°



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**Bryan Baker** 

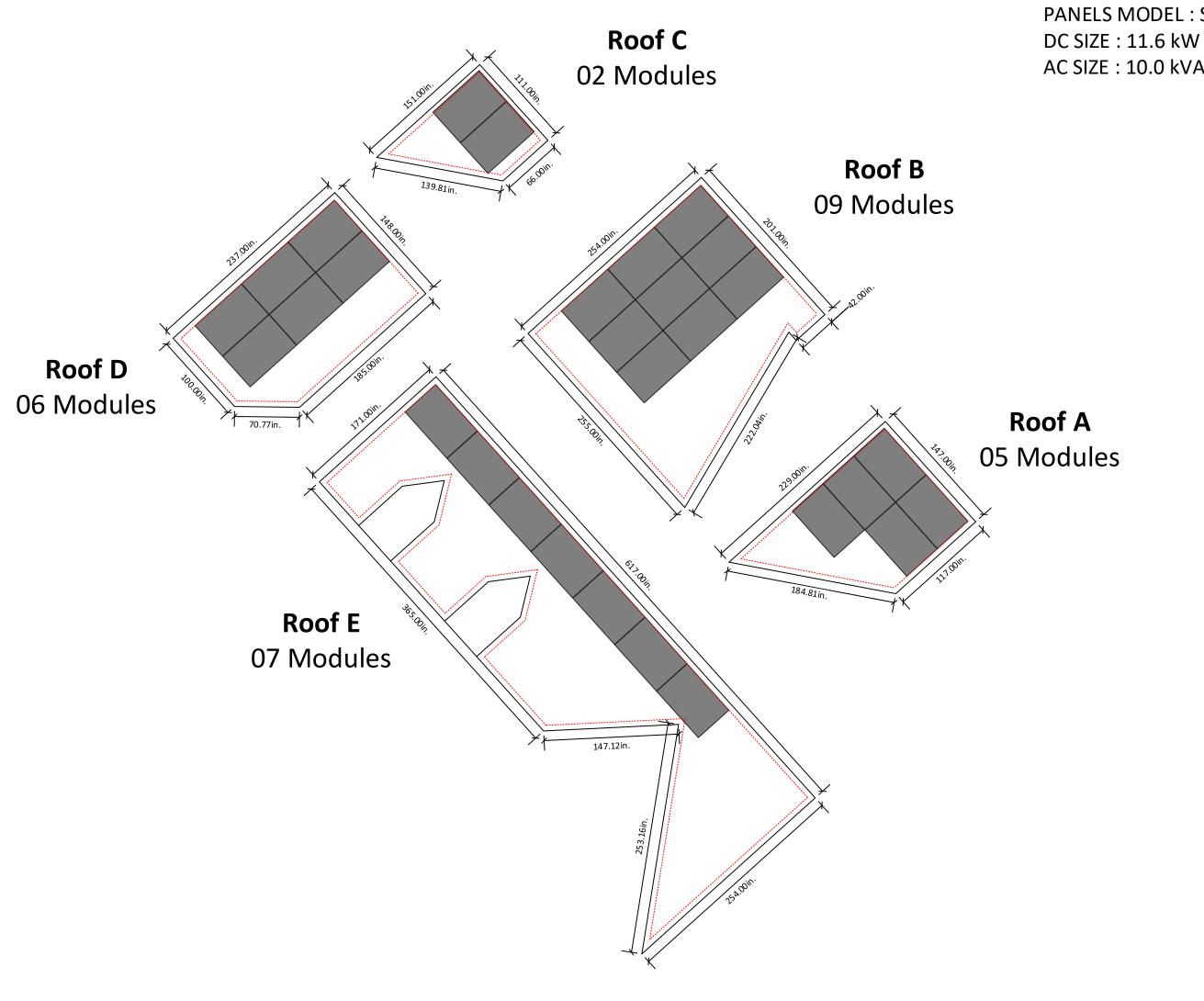
# **SYSTEM DETAILS**

NUMBER OF PANELS: 29

PANELS MODEL : SOLARIA POWERX 400R

67.8 in.

AC SIZE: 10.0 kVA





PV Installation Professional

Ali Buttar PVIP #031310-32

<u>A</u>	06/28/2022	

Customer's Signature

JOB NUMBER

22-224-BB00

PROJECT STATUS

PERMITTING

SHEET

SITE LAYOUT

SCALE: 1/8" - 1' 0"

SITE LAYOUT

BB 22224BB00-1

String Layout					
Inverter SE10000H-US (RGM)					
Strings #	No. of Modules	Color Code	Strings #	No. of Modules	Color Code
String 1	15				
String 2	14				

6" clearance from

each side of the

roof



	Dimension	44.7 in	
	Roofs	Pitch	Azimuth
	Α	36°	136°
	В	23°	46°
.	С	37°	136°
	D	39°	226°
	E	39°	226°

67.8 in.

# 8MSOLAR

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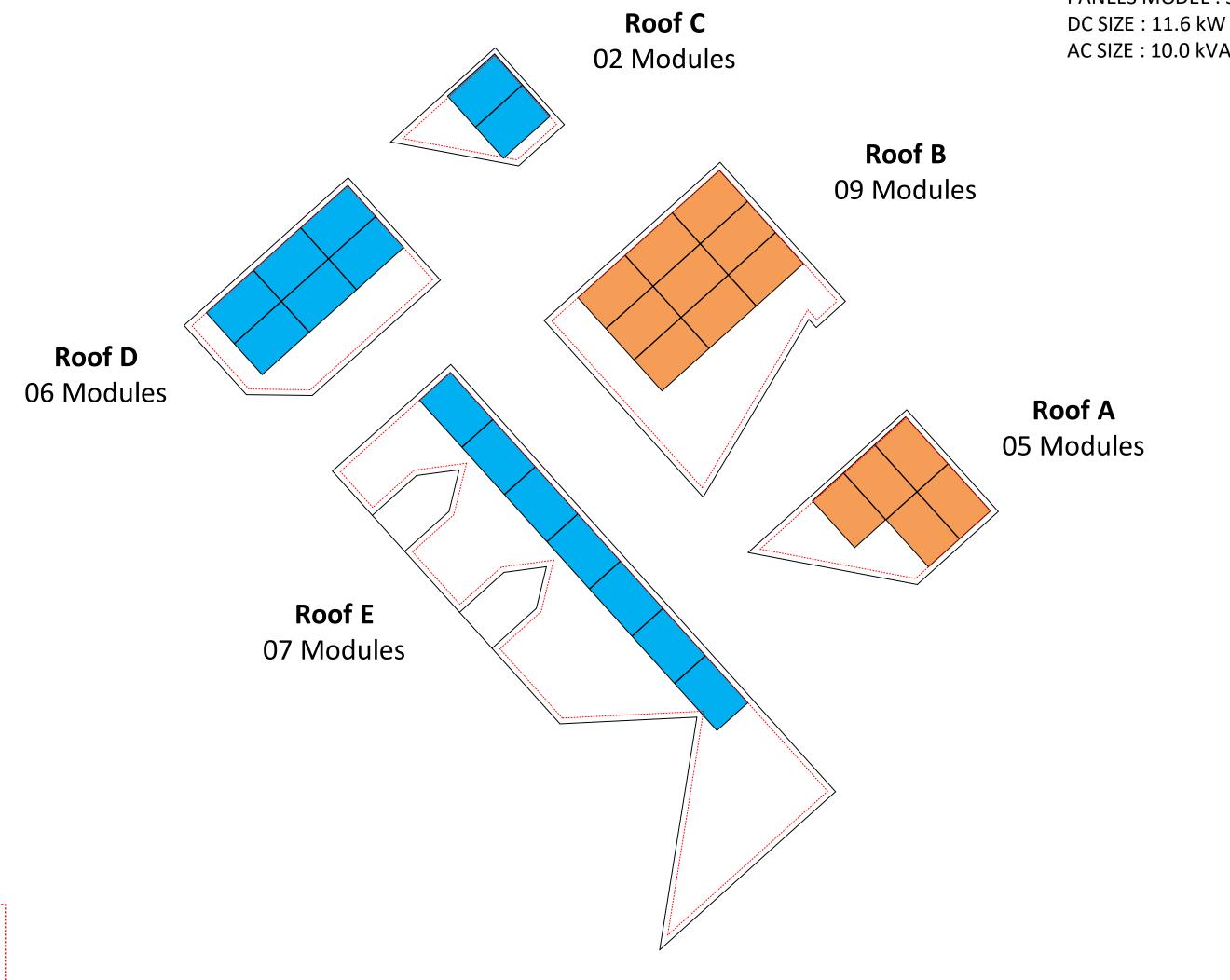
**Bryan Baker** 

# **SYSTEM DETAILS**

**NUMBER OF PANELS: 29** 

PANELS MODEL : SOLARIA POWERX 400R

AC SIZE: 10.0 kVA





PV Installation Professional

Ali Buttar PVIP #031310-32

<u>A</u>	06/28/2022	

Customer's Signature

JOB NUMBER

22-224-BB00

PROJECT STATUS

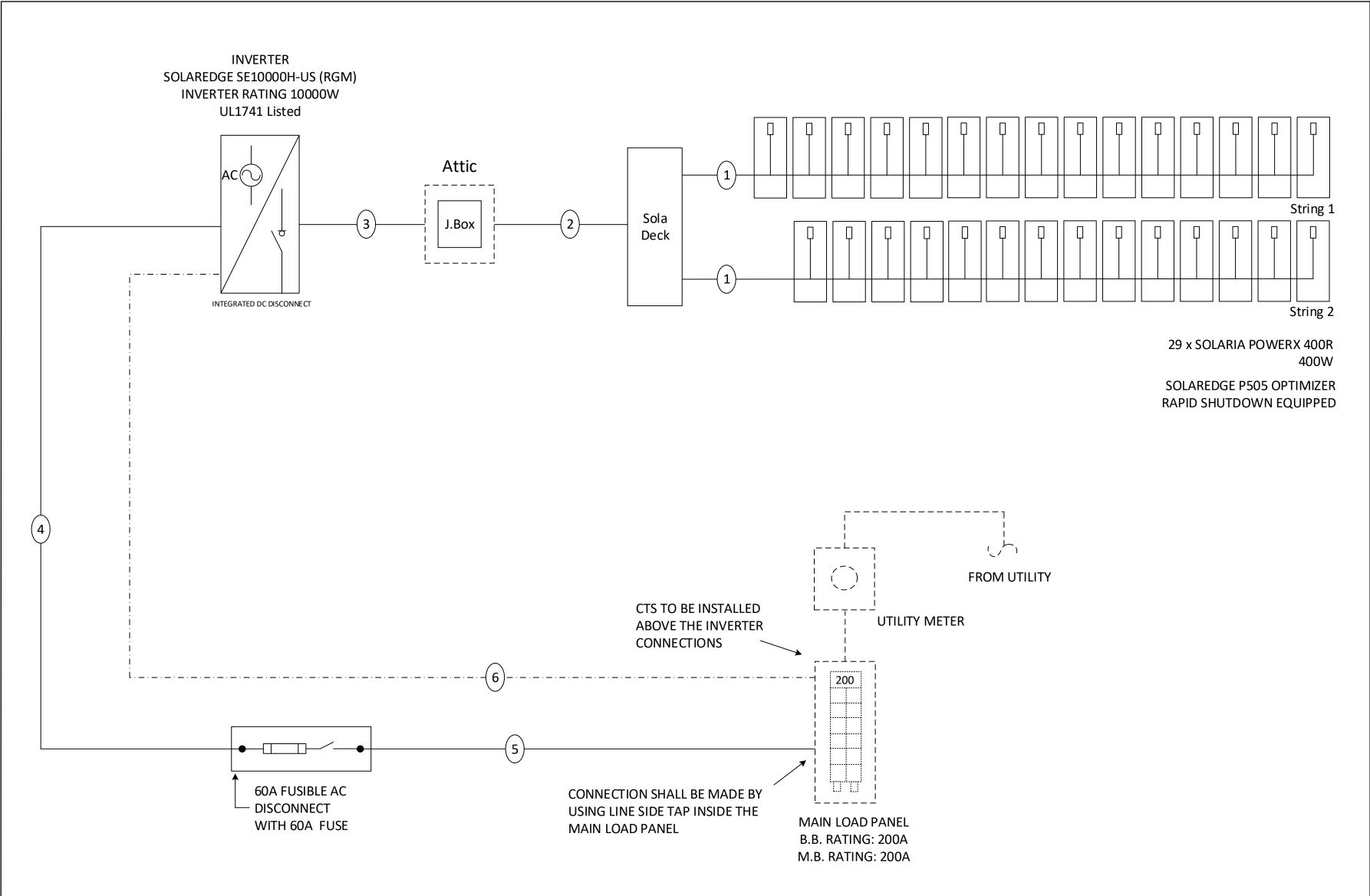
PERMITTING

SHEET

STRING MAPPING

BB 22224BB00-2

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



# 8 M S O L A R ADVANCING ENERGY INDEPENDENCE

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Professional

Ali Buttar PVIP #031310-32

<u>A</u>	06/28/2022	

Customer's Signature

JOB NUMBER

22-224-BB00

PROJECT STATUS

PERMITTING

SHEET

ELECTRICAL ONE LINE DIAGRAM

BB 22224BB00-3

# ELECTRICAL NOTES

- System Size: 11,600W DC
- (29) SOLARIA POWERX 400R
- (29) SOLAREDGE P505 OPTIMIZERS
- (01) SOLAREDGE SE10000H-US (RGM)
- Output: 42A max @ 240 VAC
- 10.0 kVA AC output max

- Grounding will be done via Pegasus grounding lugs, 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: 15 x 400W = 6,000W ea I mpp = 15 Adc I max = 23.4 Adc V mpp = 400 Vdc V oc = 15 Vdc

STRING 2: 14 x 400W = 5,600W ea I mpp = 14 Adc I max = 23.4 Adc V mpp = 400 Vdc V oc = 14 Vdc Sr.No

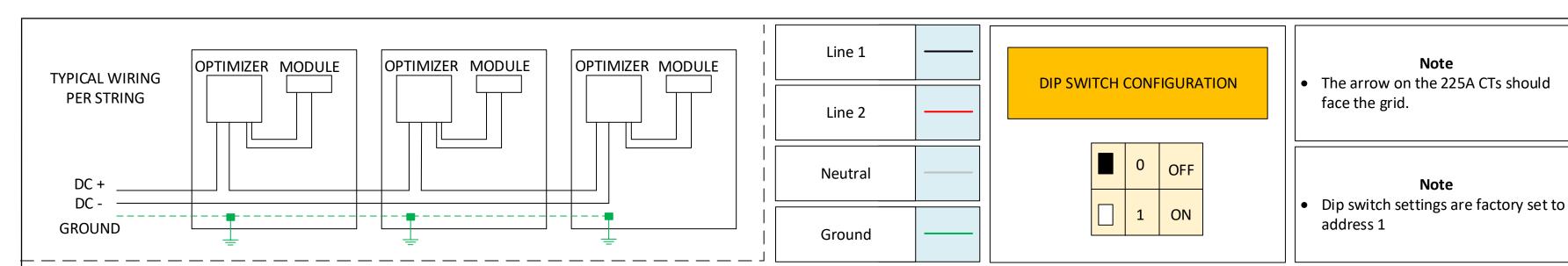
#Wire

- 1					
	1	2 x #10 PV		#10 Bare CU	
1	2	2 x #10 MC Cable			23.4A
	3	4 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			

Conduit Size

Ground Wire

Amperage





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Bryan Baker

CERTIFIED

PV Installation Professional

Ali Buttar PVIP #031310-32

06/28/2022

Customer's Signature

JOB NUMBER

22-224-BB00

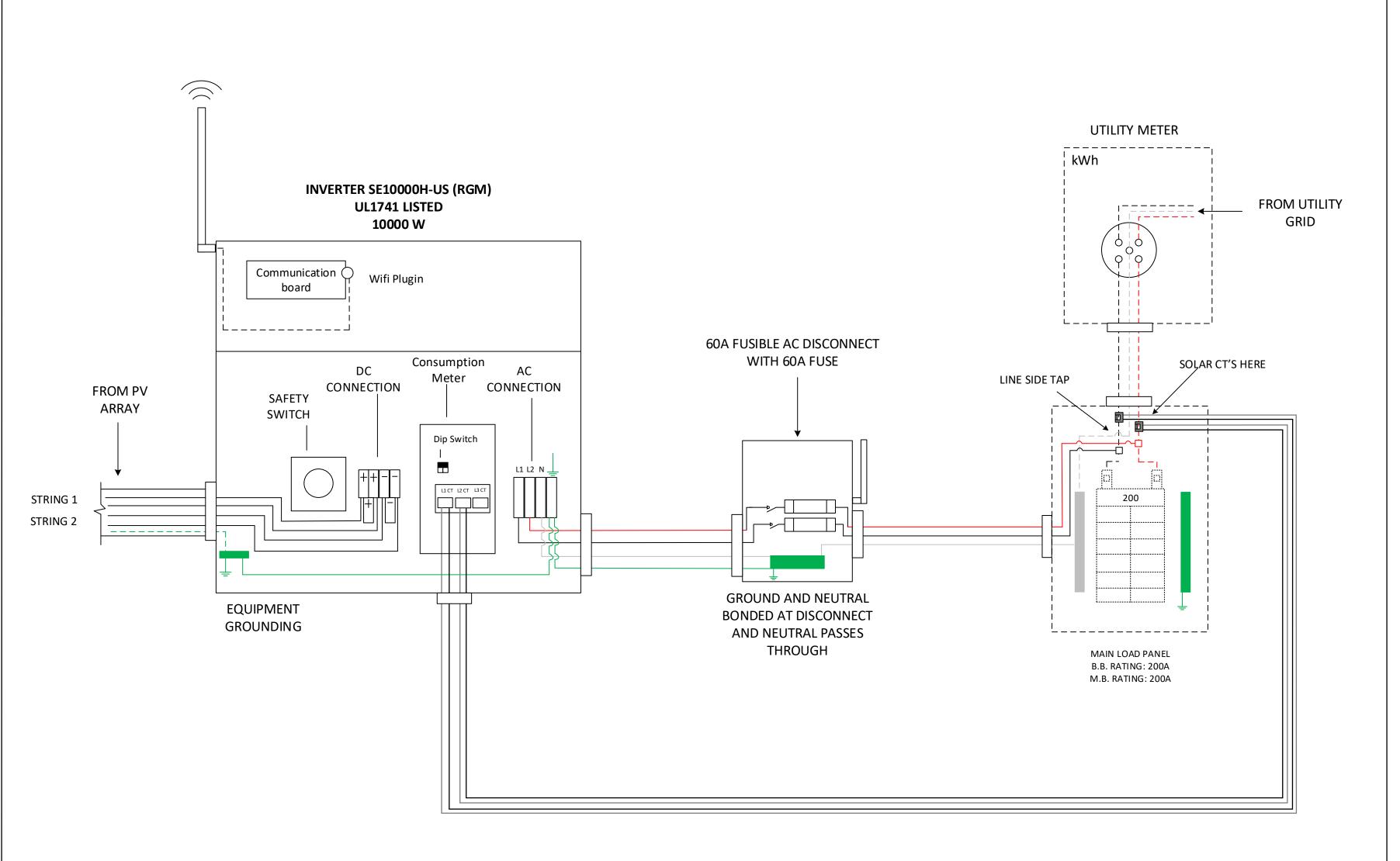
PROJECT STATUS

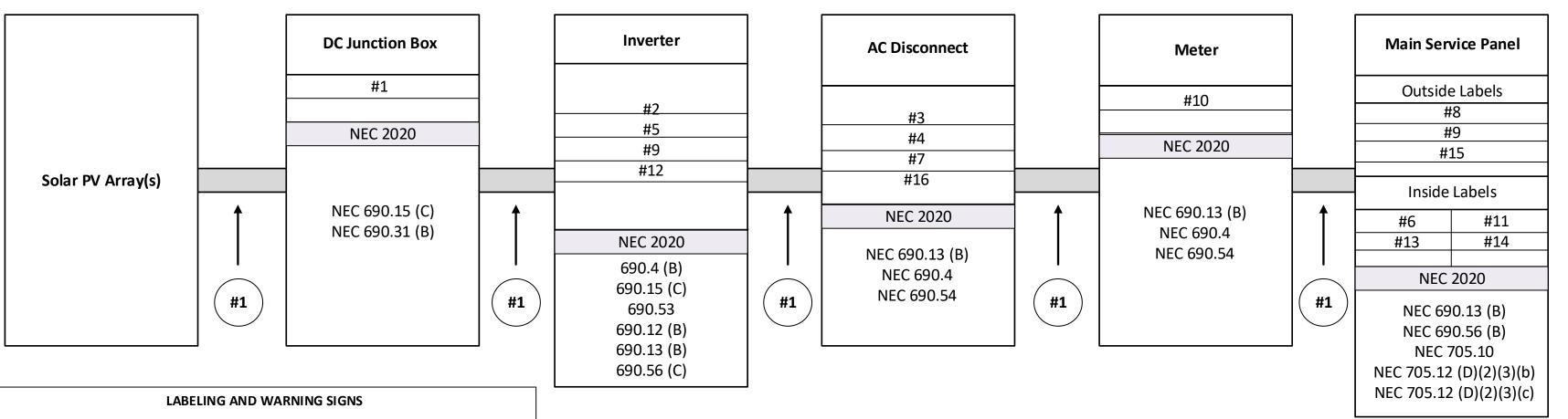
PERMITTING

SHEET

DETAILED ELECTRICAL DIAGRAM

BB 22224BB00-4





# 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 DISCONNECTCLEARLY VISIBLE FROM THE LOCATION WHERE THE LEVER IS OPERATED
- 3. MARKINGS, VERBIAGE, FORMAT AND TYPE OF MATERIAL
  - a. VERBIAGE: CAUTION; SOLAR ELECTRIC SYSTEM CONNECTED b. FORMAT:
    - (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, FORMAT 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 FORMAT AND TYPE OF MATERIAL SHALL ADHERE TO SECTION B-3.B & C ABOVE
- D. INVERTERS ARE NOT REQUIRED TO HAVE CAUTION MARKINGS



PHOTOVOLTAIC DC DISCONNECT

PHOTOVOLTAIC AC DISCONNECT

**RAPID SHUTDOWN SWITCH FOR** SOLAR PV SYSTEM

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

#9

#10

# **MWARNING**

TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE PANEL

BIPOLAR PHOTOVOLTAIC ARRAY

#16

#15

SERVICE DISCONNECT LOCATED IN MAIN LOAD PANEL INSIDE THE HOUSE

**SOLAR AC DISCONNECT** 

LOCATED AT SOUTH-EAST

SIDE WALL OF THE HOUSE

BESIDE THE UTILITY METER



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Bryan Baker

**⚠WARNING** 

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

**⚠WARNING** 

**DUAL POWER SUPPLY** 

SOURCES: UTILITY GRID AND PV SOLAR ELECTRIC SYSTEM

**MWARNING** 

THIS SERVICE METER

IS ALSO SERVED BY A

PHOTOVOLTAIC SYSTEM

#13

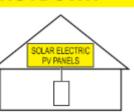
# **MARNING**

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

**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



CERTIFIED PV Installation

> Ali Buttar PVIP #031310-32

Professional

<u>A</u>	06/28/2022	
Custo	omer's Signatu	re

JOB NUMBER

22-224-BB00

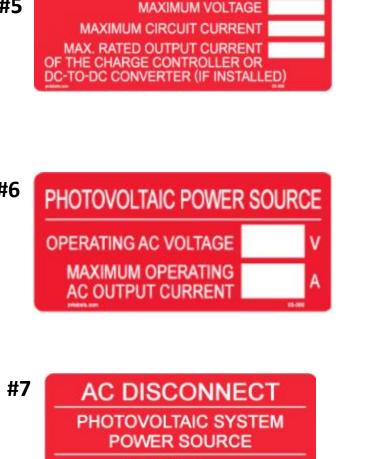
PROJECT STATUS

PERMITTING

SHEET

**PV LABELS** 

BB 22224BB00-5



RATED AC

**AC VOLTAGE** 

**OUTPUT CURRENT** 

NOMINAL OPERATING

#12

**⚠** WARNING

DISCONNECTION OF NEUTRAL GROUNDED CONDUCTORS MAY RESULT IN OVERVOLTAGE ON ARRAY OR INVERTER

Rails and Splices : PSR-B84 (BLACK)	Roof Attachment : Pegasus Comp Mount
Rafter Spacing : 16 in	There is one layer of shingles Roofing material is asphalt shingles
Attachment Span: 4ft	The roof is located in 116mph wind zone



	Dimension	44.	
	Roofs	Pitch	Azimuth
	Α	36°	136°
	В	23°	46°
.	С	37°	136°
	D	39°	226°
	E	39°	226°
			·

in.

67.8 in.



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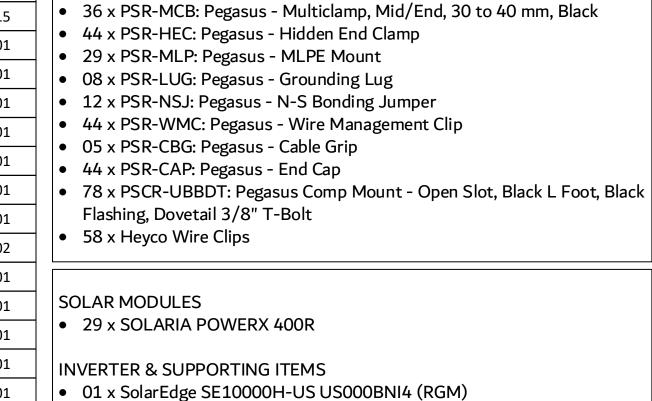
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**CERTIFIED** 

PV Installation

Professional

**Bryan Baker** 



Module

**PV LABELS** Sr No Code Qty 01 02-314 15 02 03-301 01 03-302 03 01 02-316 01 04 05 03-308 01 06 03-390 01 07 03-306 01 80 05-215 01 02 05-211 09 10 07-359 01 11 05-372 01 12 05-103 01 13 05-108 01 14 07-111 01 8M-001 01 15 16 8M-002 01

**Roof A** 05 Modules

- 29 x SolarEdge Power Optimizer P505
- 01 x SE-WFGW-B-S1-NA with Antenna kit

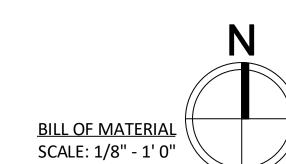
• 48 x PSR-B84: Pegasus Rail, Black, 84" (7 Feet)

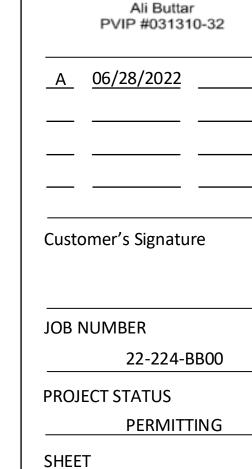
• 26 x PSR-SPL: Pegasus - Bonded, Structural Splice

• 02 x SolarEdge 225A CTs

# WIRE

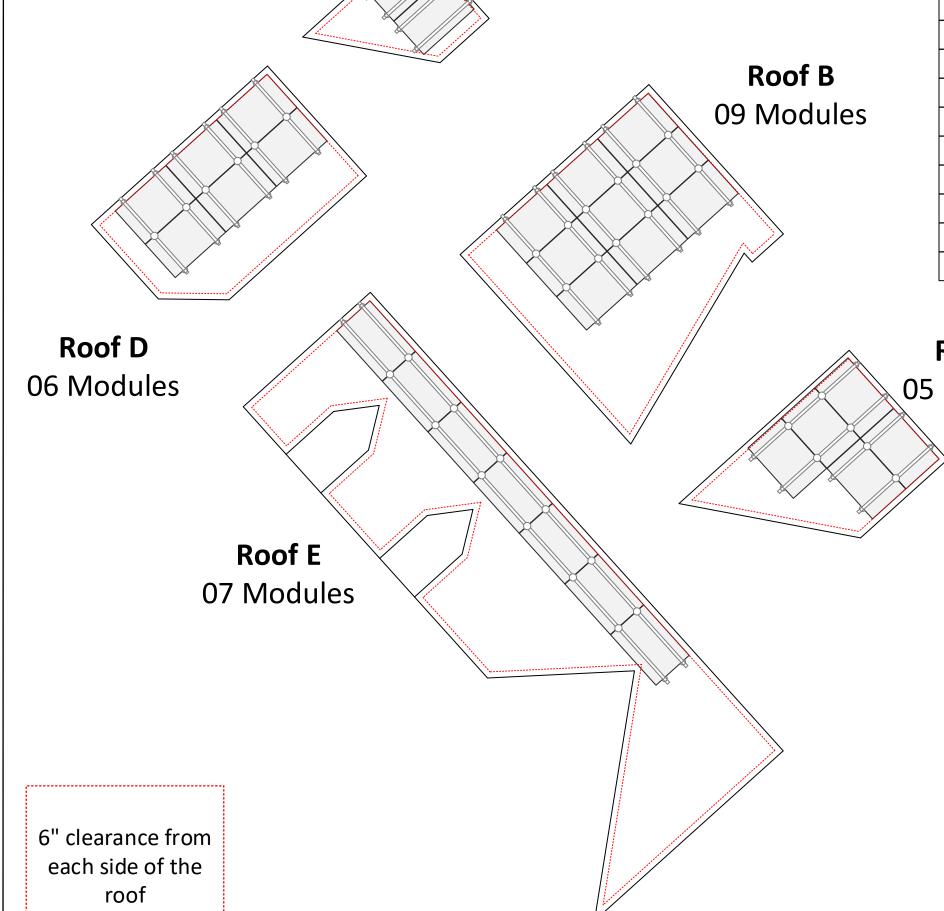
• 500 ft x #10 PV WIRE BLK (Cu)





BB 22224BB00-6

**BILL OF MATERIAL** 



**Roof C** 

02 Modules

# PV System Dead Load (Panel + Racking weight) / PV System Area

(No. of panels x Weight of panel(lbs.) +Length of racking(ft.) x 1.17 lb.ft) / (No. of panels x Height x Width) = Total psf

The roof is located in 116mph wind zone

There is one layer of shingles
Roofing material is asphalt shingles



	Dimension	44.7	
	Roofs	Pitch	Azimuth
	А	36°	136°
tility	В	23°	46°
eter	Roofs Pitch Azimuth  A 36° 136°  B 23° 46°		
	D	39°	226°
	E	39°	226°

Module

67.8 in.



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Bryan Baker

# **ROOF A**

PV System Dead Load
(Panel + Racking weight) / PV System Area

(05 panels x 48.7 lbs./panel + 38 ft. of racking x 1.17 lb.ft) / (05 panels x 5.65' x 3.72') = 2.73 psf

**ROOF B** 

PV System Dead Load (Panel + Racking weight) / PV System Area

(09 panels x 48.7 lbs./panel + 60 ft. of racking x 1.17 lb.ft) / (09 panels x 5.65' x 3.72') = 2.73 psf

# **ROOF C**

PV System Dead Load (Panel + Racking weight) / PV System Area

(02 panels x 48.7 lbs./panel + 23 ft. of racking x 1.17 lb.ft) / (02 panels x 5.65' x 3.72') = 2.94 psf

# **ROOF D**

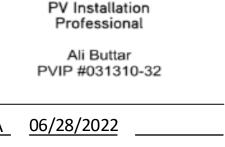
PV System Dead Load (Panel + Racking weight) / PV System Area

(06 panels x 48.7 lbs./panel + 45 ft. of racking x 1.17 lb.ft) / (06 panels x 5.65' x 3.72') = 2.73 psf

# **ROOF E**

PV System Dead Load (Panel + Racking weight) / PV System Area

(07 panels x 48.7 lbs./panel + 2.94 ft. of racking x 1.17 lb.ft) / (07 panels x 5.65' x 3.72') = 2.94 psf



Customer's Signature

JOB NUMBER

22-224-BB00

PROJECT STATUS

PERMITTING

SHEET

PV DEAD LOAD

BB 22224BB00-7



# 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-onblack 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.



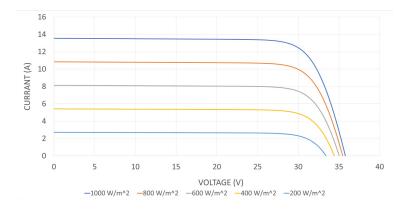
Performance at STC (1000W/	m², 25° C,	AM 1.5)		
Solaria PowerX-		390R	395R	400R
Max Power (Pmax)	[W]	390	395	400
Efficiency	[%]	20.0	20.2	20.5
Open Circuit Voltage (Voc)	[V]	36.9	37.1	37.3
Short Circuit Current (Isc)	[A]	13.52	13.60	13.68
Max Power Voltage (Vmp)	[V]	30.6	30.8	31.0
Max Power Current (Imp)	[A]	12.73	12.82	12.9
Power Tolerance	[%]	-0/+3	-0/+3	-0/+3

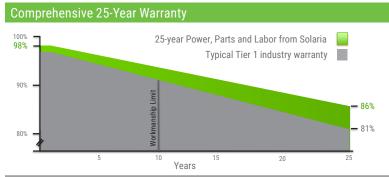
Performance at NOCT (800W/m	<sup>2</sup> , 20°C Am	b, Wind 1 m	/s, AM 1.5)	
Max Power (Pmax)	[W]	290	293	297
Open Circuit Voltage (Voc)	[V]	34.3	34.5	34.7
Short Circuit Current (Isc)	[A]	11.01	11.10	11.13
Max Power Voltage (Vmp)	[V]	28.50	28.60	28.76
Max Power Current (Imp)	[A]	10.20	10.26	10.32

Temperature Characteristics		
NOCT	[°C]	45 +/-2
Temp. Coeff. of Pmax	[% / °C]	-0.36
Temp. Coeff. of Voc	[% / °C]	-0.28
Temp. Coeff. of Isc	[% / °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 de	etails

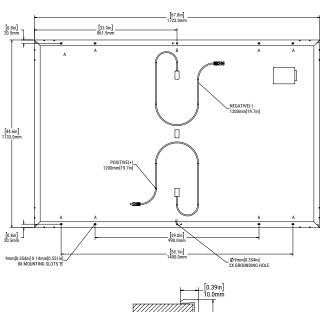
### Certifications / Warranty

\* Warranty details at www.solaria.com

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

# **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



# 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)



NVERTE

# 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						
OUTPUT	•							
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 MinNomMax. (211 - 240 - 264)	✓	✓	✓	✓	✓	✓	<b>✓</b>	Vac
AC Output Voltage MinNomMax. (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	А
Maximum Continuous Output Current @208V	-	16	-	24	-	-	48.5	А
Power Factor			1	, Adjustable - 0.85 to	0.85		1	
GFDI Threshold				1				А
Utility Monitoring, Islanding Protection, Country Configurable Thresholds				Yes				
INPUT								
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		3	80			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				600kΩ Sensitivity				
Maximum Inverter Efficiency	99			9	9.2			%
CEC Weighted Efficiency				99			99 @ 240V 98.5 @ 208V	%
Nighttime Power Consumption				< 2.5			*	W

<sup>(1)</sup> For other regional settings please contact SolarEdge support

<sup>(2)</sup> 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

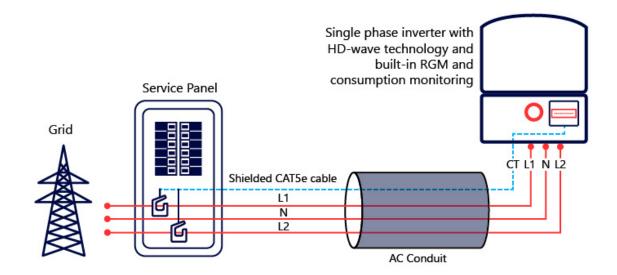
SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US/ SE7600H-US / SE10000H-US / SE11400H-US

MODEL NUMBER	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	
ADDITIONAL FEATURES			1	1	1	•	<u>'</u>	
Supported Communication Interfaces			RS485, Ethernet,	ZigBee (optional), C	ellular (optional)			
Revenue Grade Metering, ANSI C12.20				Ontinnal(3)				
Consumption metering		Optional <sup>(3)</sup>						
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						
STANDARD COMPLIANCE								
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				
INSTALLATION SPECIFICAT	IONS							
AC Output Conduit Size / AWG Range		1"	Maximum / 14-6 AV	VG		1" Maximum	/14-4 AWG	
DC Input Conduit Size / # of Strings / AWG Range		1" Maxir	mum / 1-2 strings / 14	4-6 AWG		1" Maximum / 1-3 s	strings / 14-6 AWG	
Dimensions with Safety Switch (HxWxD)		17.7 x	14.6 x 6.8 / 450 x 37	0 x 174		21.3 x 14.6 x 7.3 /	540 x 370 x 185	in / mm
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 +6	0(4)			°F/°C
Protection Rating			NEMA 42	X (Inverter with Safet	y Switch)			

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

# **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



<sup>(4)</sup> 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

# **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 modulelevel 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)		
INPUT							
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(2)	83(2)	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.						
OUTPUT DURING OPERATION	N (POWER OPTIMIZEI	R CONNECTED	TO OPERATING SOL	AREDGE INVERTE	R)		
Maximum Output Current			15			Adc	
Maximum Output Voltage		60		8	0	Vdc	
OUTPUT DURING STANDBY (F	POWER OPTIMIZER DI	SCONNECTED	FROM SOLAREDGE IN	VERTER OR SOLAR	REDGE INVERTER (	OFF)	
Safety Output Voltage per Power Optimizer			1 ± 0.1			Vdc	
STANDARD COMPLIANCE							
EMC		FCC Part	15 Class B, IEC61000-6-2, IEC6	1000-6-3			
Safety		IEC6210	9-1 (class II safety), UL1741, NEC	C/PVRSS			
Material			UL94 V-0 , UV Resistant				
RoHS			Yes				
INSTALLATION SPECIFICATION	NS						
Maximum Allowed System Voltage			1000			Vdc	
Compatible inverters		All SolarEdo	ge Single Phase and Three Pha	se 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	l	I.	m/ft	
Output Wire Type / Connector	Double Insulated / MC4						
Output Wire Length	1.2/3.9						
Operating Temperature Range (4)			-40 to +85 / -40 to +185			°C / °F	
Protection Rating		IP68 / Type6B					
Relative Humidity	0 - 100						

<sup>(1)</sup> 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

<sup>(4)</sup> 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/setemperature-derating-note-na.pdf

PV System Design Usi Inverter <sup>(6)(7)</sup>	ng a SolarEdge	Single Phase HD-Wave	Single phase	Three Phase for 208V grid	Three Phase for 277/480V grid	
Minimum String Length	P370, P400, P401	8		10	18	
(Power Optimizers)	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		

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



<sup>(2)</sup> NEC 2017 requires max input voltage be not more than 80V

<sup>(3)</sup> For other connector types please contact SolarEdge

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

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

<sup>(9)</sup> 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



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

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



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

SE9KUS / SE10KUS / SE14.4KUS / SE16.7kUS / SE17.3kUS / SE20KUS / 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.

Brand Name(s) SolarEdge

Relevant Standard(s) UL 1741, UL 1741 CRD for rapid shutdown

National Electric Code, 2020, Section 690.12 requirement for

rapid shutdown

**Verification Issuing Office** 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

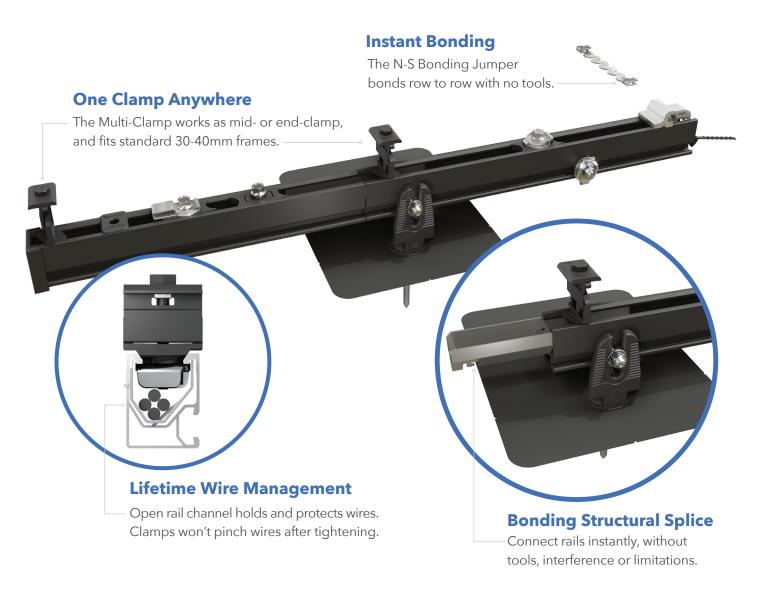




Date	Engineer / Reviewer	Description
5/17/2021 G104683664CRT	Dishant Patel	Added New 3-PH Inverter model SE50KUS, SE80KUS, SE85KUS and SE120KUS.
	Mukund Rana	Updated Power optimizers from "P followed by 001 to 960" to "P followed by 001 to 1100"
		Updated NEC standard from "National Electric Code, 2017,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



# 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



# **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



### 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 shape for extra strength.
Uses ½" 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



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

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

LOAD		SPAN			
SNOW (PSF)	WIND (MPH)	32"	4′	6′	8′
	120				
0	160				
	190				
	140				
15	160				
	190				
30	160				
30	190				
45	190				
70	190				
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.



# COMP MOUNT



# 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



# COMP MOUNT

1 Drill pilot hole in the center of the rafter.



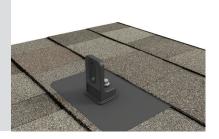
**2**Optional: Apply a
"u-shape" of sealant to
the underside of the
flashing and position
under 2nd shingle
course, cone over
pilot hole.



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

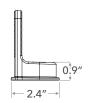


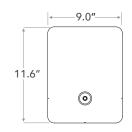
**4**Drive lag to required depth. Attach rail per rail manufacturer's instructions.



1.5" 3.5"









SPECIFICATIONS	COMP MOUNT INSTALL KITS				
SKU	PSCR-CBB0	PSCR-UBB0	SPCR-CBBH	PSCR-CMM0	PSCR-UMM0
Finish	Blac	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





UL50 Type 3R Enclosure • Stamped 1 8 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



# INTRODUCED AT SOLAR POWER 2007





# **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



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



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

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

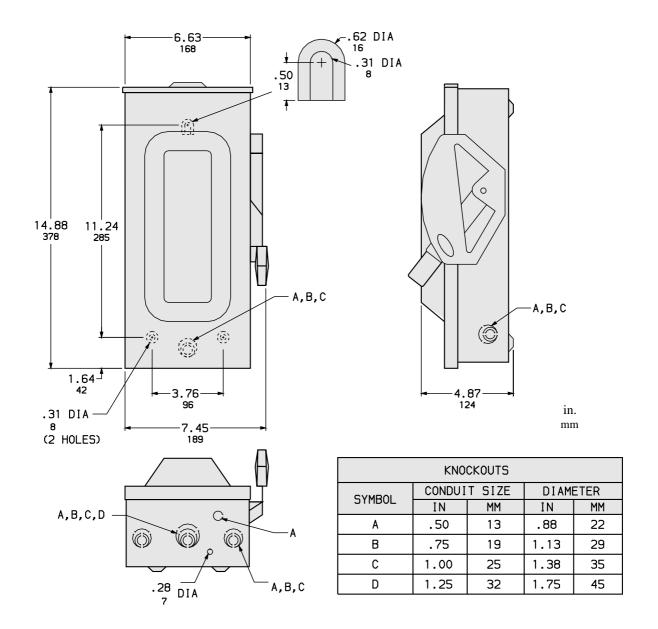
short Circuit Current Rating 100 kA maximum depending on fuse H, K or R		
Fuse type	H, K or R	
Mounting Type	Surface	
Electrical Connection	Lugs	
Wiring configuration	3-wire	
Wire Size	AWG 12AWG 3 aluminium AWG 14AWG 3 copper	
Tightening torque  35 lbf.in (3.95 N.m) 0.000.01 in² (2.085.26 mm²) (AWG 14AWG 10)  35 lbf.in (3.95 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 (5.65 N.m) 0.04 in² (26.67 mm²) (AWG 3)		
Depth	4.87 in (123.70 mm)	
Width	th 7.45 in (189.23 mm)	

<sup>\*</sup> 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
Cerunications	OL listed file L2073
Ordering and shipping d	etails
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	PCE
Unit Type of Package 1	
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) PAL
Unit Type of Package 2	
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 www.P65Warnings.ca.gov
REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information.
Environmental Disclosure	Product Environmental Profile
PVC free	Yes
Contractual warranty	
Warranty	18 months

**Technical Illustration** 

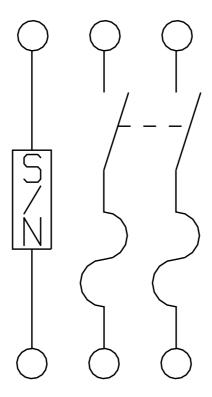
# **Dimensions**



ALL DIMENSIONS ARE APPROXIMATE.
REFER TO TECHNICAL DRAWINGS AND DOCUMENTS

Wiring Diagram

FUSIBLE



D222NRB