				_			
PHOTOVOLTAIC ROOF MOUNT SYSTEM	SR.#	P	ROJECT INFORMATION				
	1	PV MODULES	61 x REC 405AA PURE	1 🗾			
<u>CODE AND STANDARDS</u>	2	INVERTER	61 x IQ8PLUS-72-2-US				
THE INSTALLATION OF SOLAR ARRAYS AND PHOTOVOLTAIC POWER SYSTEMS SHALL COMPLY WITH THE FOLLOWING CODES:	3	ROOF TYPE	ASPHALT SHINGLES		OLAR GY INDEPENDENCE		
 2020 NATIONAL ELECTRICAL CODE 2018 NORTH CAROLINA RESIDENTIAL CODE 	4	RACKING	PSR-B84 RAILS (BLACK)				
 2018 NORTH CAROLINA BUILDING CODE ALL OTHER ORDINANCE ADOPTED BY THE LOCAL GOVERNING AGENCIES 	5	MOUNTING TYPE	COMP MOUNT FLASHING (BLACK)	5112 Departure Raleigh NC 2761 O: 919.948.6474	6		
SITE NOTES / OSHA REGULATION	6	DC SIZE	24.705 KW	E: info@8msolar.com			
1. A LADDER SHALL BE IN PLACE FOR INSPECTION IN COMPLIANCE WITH OSHA REGULATIONS	7	AC SIZE	17.69 KVA	Customer Infor	mation:		
 THE SOLAR PV INSTALLATION SHALL NOT OBSTRUCT ANY PLUMBING, MECHANICAL, OR BUILDING ROOF VENTS. 	SR.#	P	ROJECT INFORMATION	Bonita K Richie			
 ROOFTOP MOUNTED PHOTOVOLTAIC PANELS AND MODULES SHALL BE TESTED, LISTED AN IDENTIFIED BY RECOGNIZED ELECTRICAL TESTING LABORATORY. 	ID 1	PV1	DRAWING INDEX	1446 Neighbors Rd			
4. MODULES AND SUPPORT STRUCTURES SHALL BE GROUNDED	2	PV2	SITE LAYOUT	Dunn NC 28334 Customer Signature:			
 SOLAR INVERTER SHALL BE LISTED TO UL1741 ALL CONDUCTORS SHALL BE COPPER AND SHOULD BE 75 AND 90 DEG RATED 	3	PV3	STRING MAPPING		lure.		
7. REMOVAL OF AN INTERACTIVE INVERTER OR OTHER EQUIPMENT SHALL NOT DISCONNECT THE BONDING CONNECTION BETWEEN THE GROUNDING ELECTRODE CONDUCTOR, THE	4	PV4	ELECTRICAL ONE LINE DIAGRAM				
 PHOTOVOLTAIC SOURCE AND OUTPUT CIRCUIT GROUNDED CONDUCTORS. 8. LIVE PARTS OF PV SOURCE CIRCUITS AND PV OUTPUT CIRCUITS OVER 150V TO GROUND 	5	PV5	DETAILED ELECTRICAL WIRING SCHEMATIC	Sheet Name:			
SHALL NOT BE ACCESSIBLE TO OTHER THAN QUALIFIED PERSONS WHILE ENERGIZED.	6	PV6	PV LABELS	- Drawing Index			
9. ALL PV MODULES AND ASSOCIATED EQUIPMENT AND WIRING SHALL BE PROTECTED FROM PHYSICAL DAMAGE.	7	PV7	BILL OF MATERIALS				
SOLAR CONTRACTOR	8	PV8	ATTACHMENT DETAILS	JOB NUMBER:			
 MODULE CERTIFICATIONS INCLUDE UL1703, IEC61646, IEC61370. IF APPLICABLE, MODULE GROUNDING LUGS MUST BE INSTALLED AT THE MARKED GROUNDING LUG HOLES PER THE MANUFACTURERS INSTALLATION REQUIREMENTS. 	Eno 70	" Durham Wate Bartons		23-5	72-GR		
3. AS INDICATED BY DESIGN, OTHER NRTL LISTED MODULE GROUNDING DEVICES MAY BE USE IN PLACE OF STANDARD GROUNDING LUGS AS SHOWN IN MANUFACTURER	ED Chape	Triangle Leesvie Creek Creek Creek Creek Creek Creek Creek		Date:	Revision:		
DOCUMENTATION AND APPROVED BY THE AHJ.	n n	Cary Raleigh Skint Manhews Cr With White Oak Swith Creek		11/15/2023	A		
4. ALL MICROINVERTERS, PHOTOVOLTAIC MODULES, AC COMBINERS, DC-AC CONVERTERS AND SOURCE CIRCUIT COMBINERS INTENDED FOR USE IN A PHOTOVOLTAIC POWER	B	uckhorn Holly an Clayton Clayton	ters				
 SYSTEM WILL BE IDENTIFIED AND LISTED FOR THE APPLICATION PER NEC690.4(B). 5. ALL SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH LOCAL BUILDING CODE. 		Fuquey Varina Branch an Cleveland	sem.	Sheet Size:	Sheet Number:		
 TERMINALS AND LUGS WILL BE TIGHTENED TO MANUFACTURER TORQUE SPECIFICATIONS (WHEN PROVIDED) IN ACCORDANCE WITH NEC CODE 110.14(D) ON ALL ELECTRICAL CONNECTIONS. 	becue	Upper an Neils Grove Ingrams River Ultington Cresk Grove 1446 Neighbors Rd. Durn, NC 28334, Durn, NC 28334, United States		ANSI C 17" X 22"	PV1		
 MAX DC VOLTAGE CALCULATED USING MANUFACTURER PROVIDED TEMP COEFFICIENT FO VOC UNLESS NOT AVAILABLE. 	R	ng Mingo	switch grove				
DESIGN CRITERIA UTILITY COMPANY: SCOPE OF WORK WIND SPEED: 130 MPH DUKE ENERGY INSTALLATION OF UTILITY				CERTIFIED PV Installation Professional			

DESIGN CRITERIA WIND SPEED: 130 MPH GROUND SNOW LOAD: 10 PSF WIND EXPOSURE FACTOR: B

PERMIT ISSUER (AHJ): HARNETT COUNTY

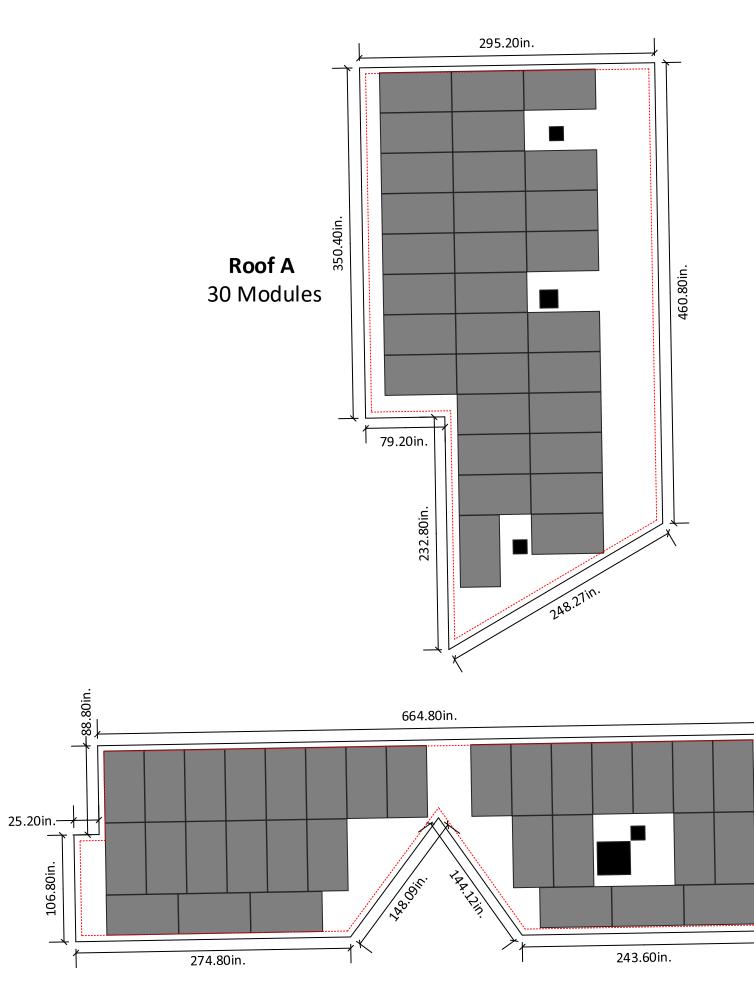
SCOPE OF WORK INSTALLATION OF UTILITY INTERACTIVE PHOTOVOLTAIC SOLAR SYSTEM.





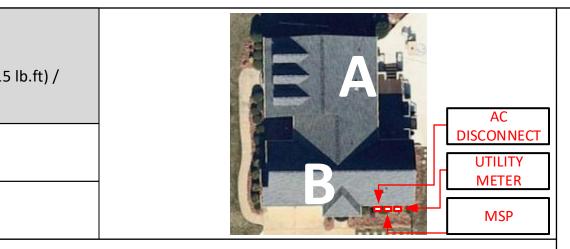
VICINITY MAP Ali Buttar PVIP #031310-32 TOP VIEW OF THE BUILDING

	ROOF DES	CRIPTION		MODULE DIMENSIO	NS	PV System Dead Load				
ROOF	PITCH	AZIMUTH	NO. OF MODULES	40.0 in		(Panel + Racking weight) / PV Syste (No. of panels x Weight of panel(lbs.) +Length of racking				
А	33°	89°	30				(No. of panels x Heig	ht x Width) = Total ps	;†	
В	45°	179°	31	71.7 in.		ROOF	А	В		
						DEAD LOAD (PSF)	2.66	2.71		
Vent		 No vents will PV modules installation 	l be covered by during the							



Roof B 31 Modules

6in setback from sides of the roof



SYSTEM DETAILS

NUMBER OF PANELS : 61 PANELS MODEL : REC 405AA PURE DC SIZE : 24.705 kW AC SIZE : 17.69 kVA



5112 Departure Drive, Raleigh NC 27616 O: 919.948.6474 E: info@8msolar.com

Customer Information:

Bonita K Richie

1446 Neighbors Rd Dunn NC 28334

Customer Signature:

Sheet Name:

Site Layout

JOB NUMBER:

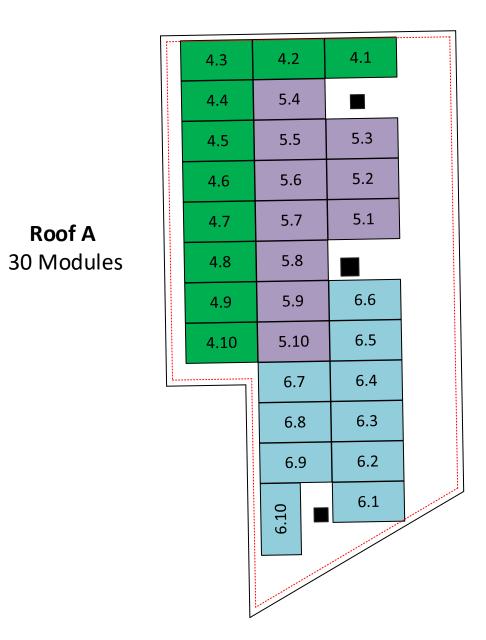
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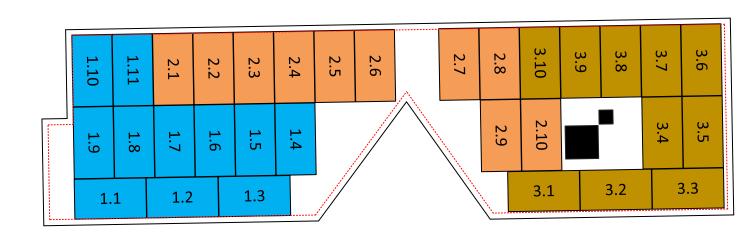
Date:	Revision:
11/15/2023	А
Sheet Size:	Sheet Number:
ANSI C 17" X 22"	PV2
PV Installation Professional Ali Buttar PVIP #031310-32	

Ν <u>SITE LAYOUT</u> SCALE: 1/8" - 1'

196.80in

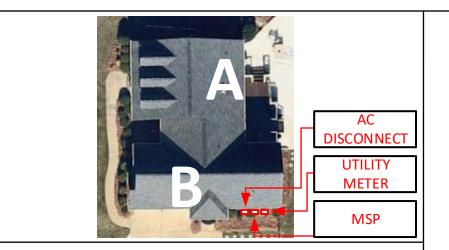
	ROOF DES	CRIPTION		MODULE DIMENSIONS		STRING LAYOUT				
ROOF	PITCH	AZIMUTH	NO. OF MODULES	40.0 in ↓			LOAD CEN	NTER 125A		
A	33°	89°	30		Strings #	No. of Modules	Color	Strings #	No. of Modules	Color
В	45°	179°	31	71.7 in.	String 1	11		String 4	10	
					String 2	10		String 5	10	
					String 3	10		String 6	10	





Roof B 31 Modules

6in setback from sides of the roof



SYSTEM DETAILS

NUMBER OF PANELS : 61 PANELS MODEL : REC 405AA PURE DC SIZE : 24.705 kW AC SIZE : 17.69 kVA



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Customer Information:

Bonita K Richie

1446 Neighbors Rd Dunn NC 28334

Customer Signature:

Sheet Name:

String Mapping

JOB NUMBER:

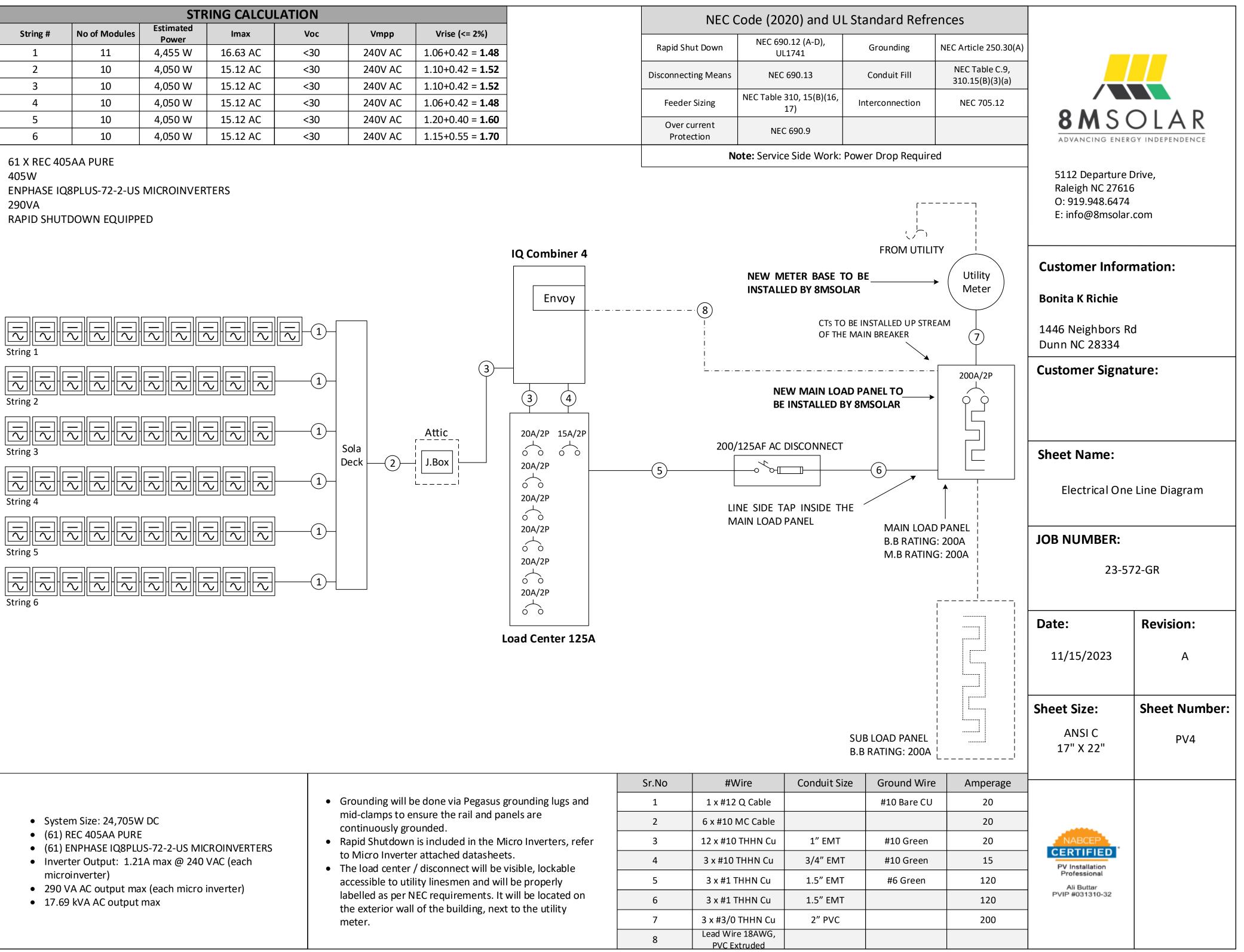
23-572-GR

Date:	Revision:
11/15/2023	A
Sheet Size:	Sheet Number:
ANSI C 17" X 22"	PV3
CERTIFIED PV Installation Professional Ali Buttar PVIP #031310-32	

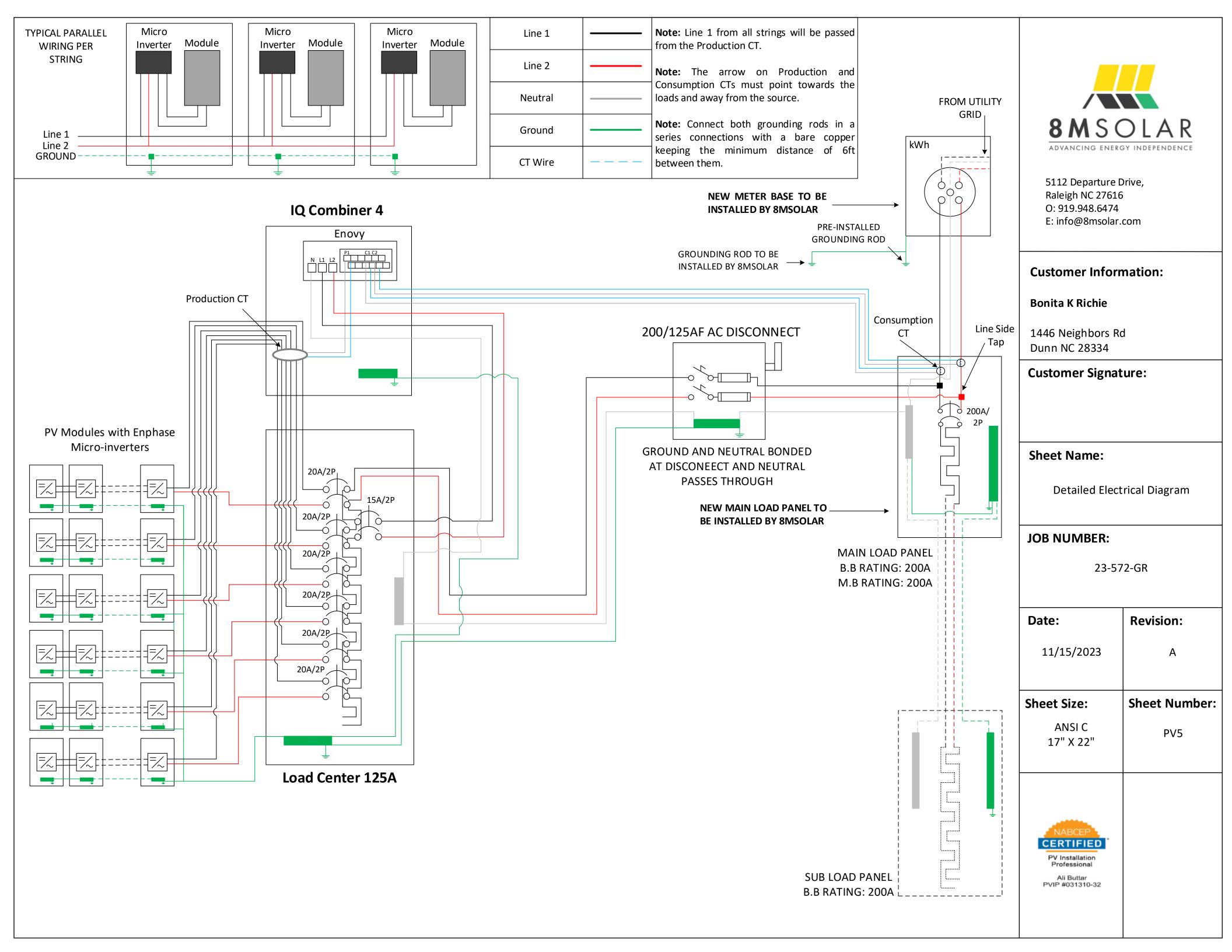
SCALE: 1/8" - 1

Ν

STRING CALCULATION								
String # No of Modu	lles Estimated Power	Imax	Voc	Vmpp	Vrise (<= 2%)			
1 11	4,455 W	16.63 AC	<30	240V AC	1.06+0.42 = 1.48			
2 10	4,050 W	15.12 AC	<30	240V AC	1.10+0.42 = 1.52			
3 10	4,050 W	15.12 AC	<30	240V AC	1.10+0.42 = 1.52			
4 10	4,050 W	15.12 AC	<30	240V AC	1.06+0.42 = 1.48			
5 10	4,050 W	15.12 AC	<30	240V AC	1.20+0.40 = 1.60			
6 10	4,050 W	15.12 AC	<30	240V AC	1.15+0.55 = 1.70			



		Sr.No	
 System Size: 24,705W DC (61) REC 405AA PURE (61) ENPHASE IQ8PLUS-72-2-US MICROINVERTERS Inverter Output: 1.21A max @ 240 VAC (each microinverter) 290 VA AC output max (each micro inverter) 17.69 kVA AC output max 	 Grounding will be done via Pegasus grounding lugs and 	1	
	mid-clamps to ensure the rail and panels are continuously grounded.	2	6
	 Rapid Shutdown is included in the Micro Inverters, refer to Micro Inverter attached datasheets. The load center / disconnect will be visible, lockable accessible to utility linesmen and will be properly 	3	1
		4	З
		5	
	labelled as per NEC requirements. It will be located on the exterior wall of the building, next to the utility	6	
	meter.	7	3
			1 1



	Load Center (125A)	IQ Combiner	AC Disconnect
	#3 #7 #9 #11	#9 #11 #13	#1 #2 #4 #6
Solar PV Array(s)	#13		#11 NEC 2020
	NEC 2020 690.4 (B) 690.15 (C) 690.53 690.12 (B) 690.13 (B) 690.56 (C)	NEC 2020 690.4 (B) 690.15 (C) 690.53 690.12 (B) 690.13 (B) 690.56 (C)	NEC 690.13 (B) NEC 690.4 NEC 690.54

LABELING AND WARNING SIGNS: NEC 2020

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 CONDUIT, RACEWAYS, ENCLOSURES, CABLE ASSEMBLIES, 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 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

#1 PHOTOVOLATIC
AC DISCONNECT

#2

#

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

3	PHOTOVOLTIVC POWER SO	URCE	
	OPERATING AC VOLTAGE	240	V
	MAXIMUN OPERATING AC OUTPUT CURRENT	92.26	А

AC DISCONNECT
PHOTOVOLTAIC SYSTEM
POWER SOURCE
RATED AC 02 2C 1100
RATED AC 92.26 AMPS
NOMINAL OPERATING 240 VOLTS
AC VOLTAGE 240 VOLTS

#5

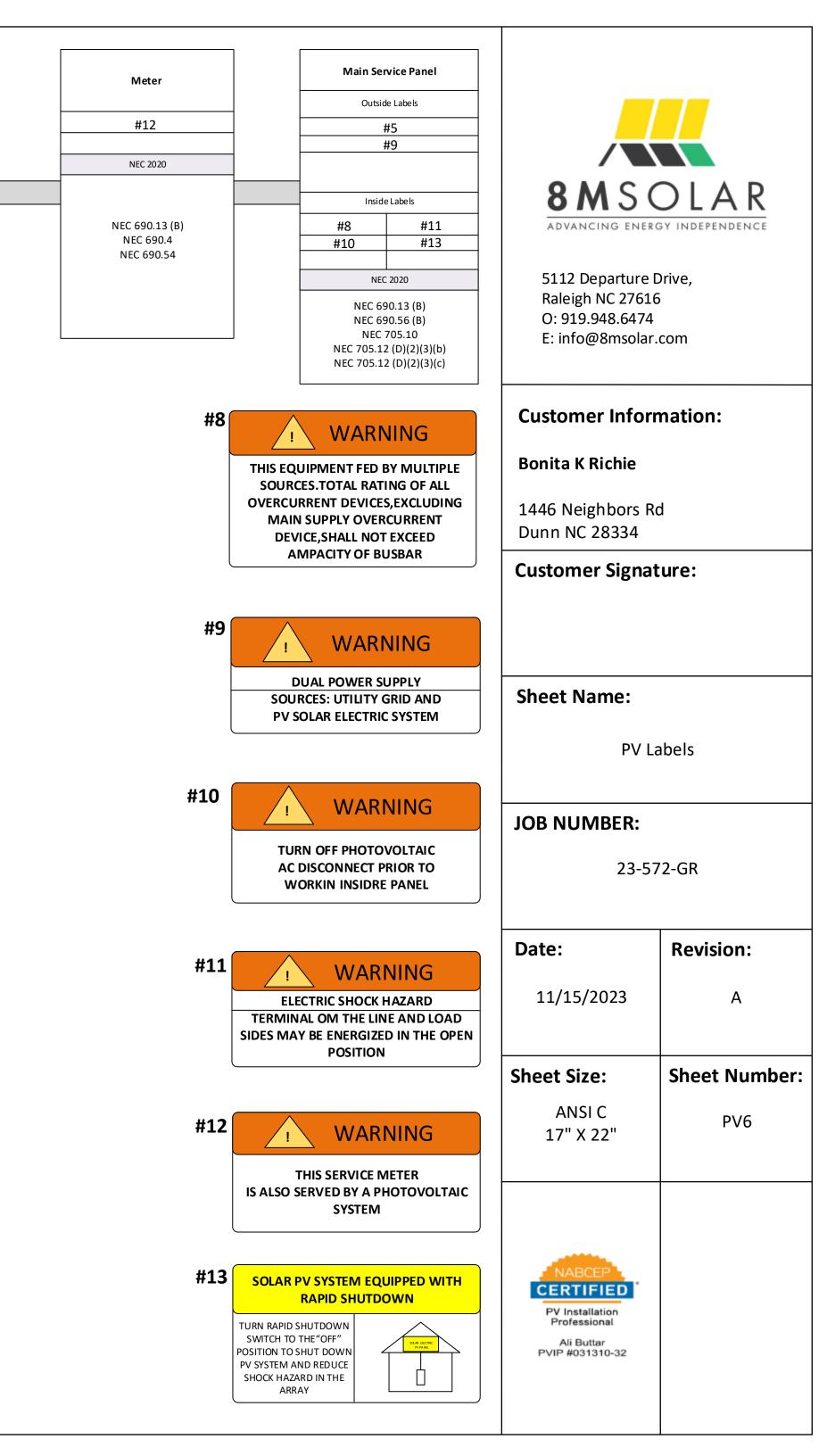
SOLAR AC DISCONNECT LOCATED AT SOUTH SIDE WALL OF THE HOUSE BESIDE THE UTILITY METER

#6

SERVICE DISCONNECT LOCATED INSIDE THE MAIN LOAD PANEL

#7

PHOTOVOLTAIC SYSTEM COMBINER PANEL DO NOT ADD LOADS



	ROO	F DESCRI	PTION		MODULE DIMENSIONS		
ROOF	PITC	н	AZIMUTH	NO. OF MODULES	40.0 in	Rails and Splices : PSR-B84 (BLACK)	Roof Attachment : Pegasus Co
А	33°	,	89°	30	ć	Rafter Spacing : 24 in	There is one layer of shi
В	45°	,	179°	31	71.7 in.		Roofing material is asphalt
					<u> </u>	Attachment Span: 4ft	The roof is located in 130mph
Sr No 01 02 03 04 05 06 07 08 09 10 12 13	Code 03-302 02-316 03-390 03-306 8M-001 8M-002 03-355 05-108 05-211 05-215 07-359 07-111	Qty 01 01 01 01 01 01 01 01 01 03 01 04 01 03			 47 x PSR-SPL: Pega 97 x PSR-MCB: Pega 52 x PSR-HEC: Pega 61 x PSR-LUG: Pega 95 x PSR-WMC: Pega 95 x PSR-CAP: Pega 52 x PSR-CAP: Pega 130 x PSCR-UBBDT Black Flashing, Dove 122 x Heyco Wire C 04 x RT Mini II Mout 16 x Screw 5.0 x 60 04 x RT2-04-FBN25 04 x LFT-03-M1: Ske 	isus Rail, Black, 84" (7 Feet) sus - Bonded, Structural Splice asus - Multiclamp, Mid/End, 30 to 40 m asus - Hidden End Clamp asus - Hidden End Clamp asus - MLPE Mount asus - Grounding Lug gasus - Wire Management Clip asus - Cable Grip asus - Cable Grip asus - End Cap T: Pegasus Comp Mount - Open Slot, Bla etail 3/8" T-Bolt lips nts	INVERTE • 61 × E • 01 × X ENPHASE • 64 × C
				31	Roof B Modules		
6in setba sides of t							



hingles It shingles



MODULES REC 405AA PURE

ER & SUPPORTING ITEMS Enphase IQ8PLUS-72-2-US micro inverter X-IQ-AM1-240-4: IQ Combiner 4

SE CABLES AND ACCESSORIES Q-12-10-240: Q Cable Q-12-20-200: Q Cable Q-12-RAW-300:Q Cable, 12 AWG (120ft) Q-CONN-10M Male Field-wireable connector Q-CONN-10F Female Field-wireable connector Q-TERM-10: Terminator Cap Q-SEAL-10: Female Sealing Cap Q-CLIP-100: Q Cable rail mount cable management clip (Pack of

Q-DISC-10: Disconnect tool

ICAL ITEMS UAT417-XGF: 200A Meter Base BR816B200RF: Outdoor Sub Panel (Eaton) 200A MCB/8 space min MA 3R), Feed through lugs BR230: Eaton BR 30/2 BR260: Eaton BR 60/2 BR290: Eaton BR 90/2 HOM2040L125PRB: Load center, Homeline, 1 phase, 20 spaces, 40 uits, 125A convertible main lugs, NEMA 3R HOM220: SQ D HOM 20/2 HOM215: SQ D HOM 15/2 IPCS 2540: Line/Load Side Hot Taps (#250 main - #4/0-6 tap) types D224NRB: 250volt/200amp/2pole fusible disconnect (NEMA 3R) SQUARE D FRNR125: 250volt/125amp fuses EZSLR JB-1.2: SolaDeck



5112 Departure Drive, Raleigh NC 27616 O: 919.948.6474 E: info@8msolar.com

Customer Information:

Bonita K Richie

AC

DISCONNECT

UTILITY METER

MSP

1446 Neighbors Rd Dunn NC 28334

Customer Signature:

Sheet Name:

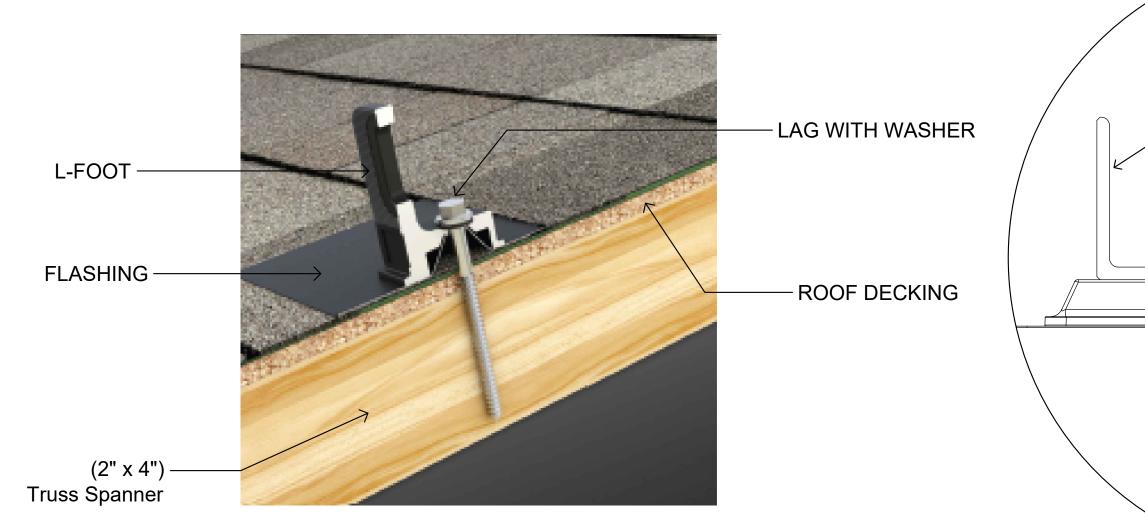
Bill of Material

JOB NUMBER:

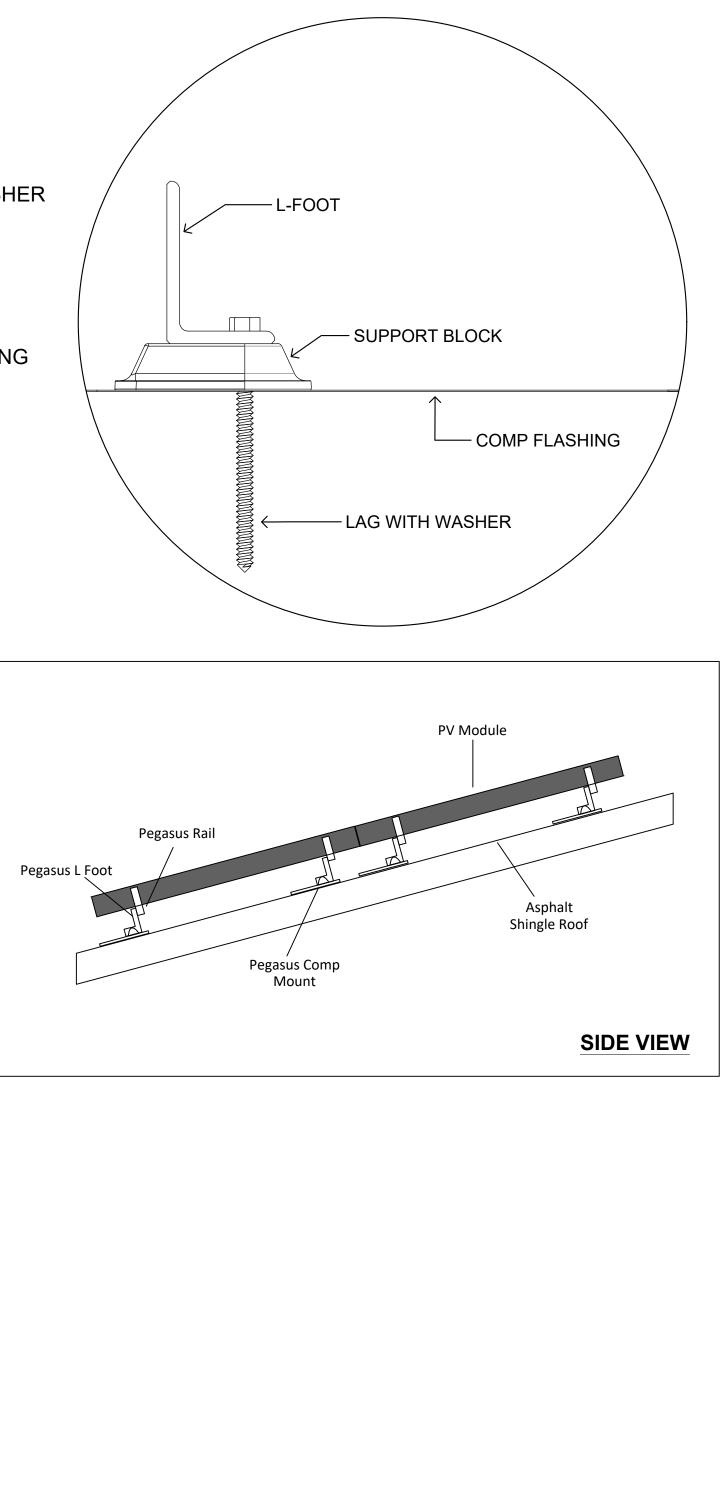
23-572-GR

Date:	Revision:
 11/15/2023	A
Sheet Size:	Sheet Number:
ANSI C 17" X 22"	PV7
NABCEP CERTIFIED PV Installation Professional	
Ali Buttar PVIP #031310-32	

BILL OF MATERIAL SCALE: 1/8" - 1' Ν



Multi-Clamp	Hidden End Clamp	MLPE Mount	Dovetail T-Bolt	Ground Lug	Cable Grip
Torque Value 100 in-lbs.	Torque Value 135 in-Ibs.	Torque Value 135 in-Ibs.	Torque Value 300 in-lbs.	Torque Value 135 in-Ibs.	Torque Value 135 in-Ibs.



PV Dead Load					
Roof A	PV System Dead Load (Panel + Racking weight) / PV System Area (30 panels x 45 lbs./panel + 207 ft. of racking x 1.17 lb.ft) / (30 panels x 5.975' x 3.33') = 2.66 psf				
Roof B	PV System Dead Load (Panel + Racking weight) / PV System Area (31 panels x 45 lbs./panel + 241 ft. of racking x 1.17 lb.ft) / (31 panels x 5.975' x 3.33') = 2.71 psf				



5112 Departure Drive, Raleigh NC 27616 O: 919.948.6474 E: info@8msolar.com

Customer Information:

Bonita K Richie

1446 Neighbors Rd Dunn NC 28334

Customer Signature:

Sheet Name:

Attachment Details

JOB NUMBER:

23-572-GR

Date:	Revision:
11/15/2023	A
Sheet Size:	Sheet Number:
ANSI C 17" X 22"	PV8
NABCEP CERTIFIED PV Installation Professional Ali Buttar PVIP #031310-32	







REC ALPHO PURE SERIES PRODUCT SPECIFICATIONS

COMPACT PANEL SIZE







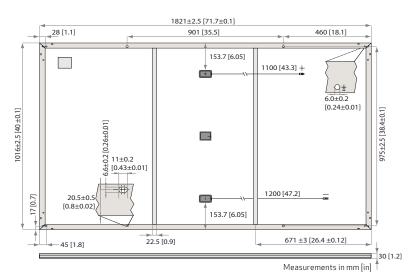


REC ALPHA PURE SERIES

PRODUCT SPECIFICATIONS



GENERAL DA	TA
Cell type:	132 half-cut REC heterojunction cells with lead-free, gapless technology, 6 strings of 22 cells in series
Glass:	$3.2mmsolarglasswithanti-reflectivesurfacetreatment\\inaccordancewithEN12150$
Backsheet:	Highly resistant polymer (black)
Frame:	Anodized aluminum (black)
Junction box:	3-part, 3 bypass diodes, lead-free IP68 rated, in accordance with IEC 62790
Connectors:	Stäubli MC4 PV-KBT4/KST4 (4 mm²) in accordance with IEC 62852, IP68 only when connected
Cable:	4 mm² solar cable, 1.1 m + 1.2 m in accordance with EN 50618
Dimensions:	$1821 \times 1016 \times 30 \text{ mm} (1.85 \text{ m}^2)$
Weight:	20.5 kg
Origin:	Made in Singapore



ELECTRICAL DATA		Proc	luct Code*:	RECxxxAA	Pure	
Power Output - P _{MAX} (Wp)	385	390	395	400	405	410
Watt Class Sorting - (W)	0/+5	0/+5	0/+5	0/+5	0/+5	0/+5
Nominal Power Voltage - V _{MPP} (V)	41.2	41.5	41.8	42.1	42.4	42.7
Nominal Power Current - I _{MPP} (A)	9.35	9.40	9.45	9.51	9.56	9.61
Open Circuit Voltage - V _{oc} (V)	48.5	48.6	48.7	48.8	48.9	49.0
Short Circuit Current - I _{sc} (A)	10.18	10.22	10.25	10.28	10.30	10.35
Power Density (W/m²)	208	211	214	216	219	222
Panel Efficiency (%)	20.8	21.1	21.4	21.6	21.9	22.2
Power Output - P _{MAX} (Wp)	293	297	301	305	309	312
Nominal Power Voltage - $V_{MPP}(V)$	38.8	39.1	39.4	39.7	40.0	40.2
Nominal Power Current - I _{MPP} (A)	7.55	7.59	7.63	7.68	7.72	7.76
Open Circuit Voltage - $V_{oc}(V)$	45.7	45.8	45.9	46.0	46.1	46.2
Short Circuit Current - I _{sc} (A)	8.16	8.20	8.24	8.28	8.32	8.36

STC

Values at standard test conditions (STC: air mass AM 1.5, irradiance 1000 W/m², temperature 25°C), based on a production spread with a tolerance of P_{Max} V_{oc} & I_{sc} ±3% within one watt class. Nominal module operating temperature (NMOT: air mass AM 1.5, irradiance 800 W/m², temperature 20°C, windspeed 1 m/s). * Where xxx indicates the nominal power class (P_{Max}) at STC above.

MAXIMUM RATINGS

Operational temperature:	-40+85°C
Maximum system voltage:	1000 V
Maximum test load (front):	+ 7000 Pa (713 kg/m²)*
Maximum test load (rear):	- 4000 Pa (407 kg/m²)*
Max series fuse rating:	25 A
Max reverse current:	25 A
* See installation man	ual for mounting instructions

Design load = Test load / 1.5 (safety factor)

WARRANTY				
	Standard	REC	ProTrust	
Installed by an REC Certified Solar Professional	No	Yes	Yes	
System Size	All	≤25 kW	25-500 kW	
Product Warranty (yrs)	20	25	25	
Power Warranty (yrs)	25	25	25	
Labor Warranty (yrs)	0	25	10	
Power in Year 1	98%	98%	98%	
Annual Degradation	0.25%	0.25%	0.25%	
Power in Year 25	92%	92%	92%	
See warranty documents for details. Conditions apply				

CERTIFICATIONS IEC 61215:2016, IEC 61730:2016, UL 61730 IEC 62804 PID IEC 61701 Salt Mist Ammonia Resistance IEC 62716 ISO 11925-2 Ignitability (Class E) IEC 62782 Dynamic Mechanical Load IEC 61215-2:2016 Hailstone (35mm) IEC 62321 Lead-free acc. to RoHS EU 863/2015 ISO 14001, ISO 9001, IEC 45001, IEC 62941

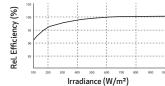


TEMPERATURE RATINGS*				
Nominal Module Operating Temperature:	44°C (±2°C)			
Temperature coefficient of $P_{_{MAX}}\!\!:$	-0.26 %/°C			
Temperature coefficient of V_{oC}	-0.24 %/°C			
Temperature coefficient of I _{sc} : 0.04 %/°C				
*The temperature coefficients stated are linear values				

DELIVERY INFORMATION	
Panels per pallet:	33
Panels per 40 ft GP/high cube container:	792 (24 pallets)
Panels per 13.6 m truck:	924 (28 pallets)
Panels per 53 ft truck:	891 (27 pallets)

LOW LIGHT BEHAVIOUR

Typical low irradiance performance of module at STC:



Ref:



Founded in 1996, REC Group is an international pioneering solar energy company dedicated to empowering consumers with clean, affordable solar power. As Solar's Most Trusted, REC is committed to high quality, innovation, and a low carbon footprint in the solar materials and solar panels it manufactures. Headquartered in Norway with operational headquarters in Singapore, REC also has regional hubs in North America, Europe, and Asia-Pacific.





IQ8 Series Microinverters

Our newest IQ8 Microinverters are the industry's first microgrid-forming, softwaredefined microinverters with split-phase power conversion capability to convert DC power to AC power efficiently. The brain of the semiconductor-based microinverter is our proprietary application-specific integrated circuit (ASIC) which enables the microinverter to operate in grid-tied or off-grid modes. This chip is built in advanced 55nm technology with high speed digital logic and has super-fast response times to changing loads and grid events, alleviating constraints on battery sizing for home energy systems.



Part of the Enphase Energy System, IQ8 Series Microinverters integrate with the Enphase IQ Battery, Enphase IQ Gateway, and the Enphase App monitoring and analysis software.



Connect PV modules quickly and easily to IQ8 Series Microinverters using the included Q-DCC-2 adapter cable with plug-n-play MC4 connectors.



IQ8 Series Microinverters redefine reliability standards with more than one million cumulative hours of power-on testing, enabling an industryleading limited warranty of up to 25 years.



IQ8 Series Microinverters are UL Listed as PV Rapid Shut Down Equipment and conform with various regulations, when installed according to manufacturer's instructions.

Easy to install

- Lightweight and compact with plug-n-play connectors
- Power Line Communication (PLC) between components
- Faster installation with simple two-wire cabling

High productivity and reliability

- Produce power even when the grid is down*
- More than one million cumulative hours of testing
- Class II double-insulated
 enclosure
- Optimized for the latest highpowered PV modules

Microgrid-forming

- Complies with the latest advanced grid support**
- Remote automatic updates for the latest grid requirements
- Configurable to support a wide range of grid profiles
- Meets CA Rule 21 (UL 1741-SA)
 requirements

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* Only when installed with IQ System Controller 2, meets UL 1741. IQ8H-208V operates only in grid-tied mode.

** IQ8 Series Microinverters supports split phase, 240V. IQ8H-208 supports split phase, 208V only.

IQ8 Series Microinverters

INPUT DATA (DC)		IQ8-60-2-US	IQ8PLUS-72-2-US	108M-72-2-US	108A-72-2-US	IQ8H-240-72-2-US	IQ8H-208-72-2-US1	
Commonly used module pairings ²	w	235 - 350	235 - 440	260 - 460	295 - 500	320 - 540+	295 - 500+	
Module compatibility		60-cell/120 half-cell 60-cell/120 half-cell, 66-cell/132 half-cell and 72-cell/144 half-cell					ell.	
MPPT voltage range	v	27 - 37	29 - 45	33 - 45	36 - 45	38 - 45	38 - 45	
Operating range	v	25 - 48			25 - 58			
Min/max start voltage	v	30 / 48			30 / 58			
Max input DC voltage	v	50			60			
Max DC current ³ [module lsc]	А	15						
Overvoltage class DC port		Ш						
DC port backfeed current	mA	0						
PV array configuration		1x1 Ungrounded	array; No additional D	C side protection requi	red; AC side protecti	ion requires max 20A p	er branch circuit	
OUTPUT DATA (AC)		IQ8-60-2-US	IQ8PLUS-72-2-US	108M-72-2-US	108A-72-2-US	IQ8H-240-72-2-US	IQ8H-208-72-2-US1	
Peak output power	VA	245	300	330	366	384	366	
Max continuous output power	VA	240	290	325	349	380	360	
Nominal (L-L) voltage/range ⁴	v			240 / 211 - 264			208 / 183 - 250	
Max continuous output current	А	1.0	1.21	1.35	1.45	1.58	1.73	
Nominal frequency	Hz			60	C			
Extended frequency range	Hz			50 -	- 68			
AC short circuit fault current over 3 cycles	Arms			2			4.4	
Max units per 20 A (L-L) branch circuit⁵		16	13	11	11	10	9	
Total harmonic distortion				<5	%			
Overvoltage class AC port		Ш						
AC port backfeed current	mA			30	D			
Power factor setting				1.0	D			
Grid-tied power factor (adjustable)				0.85 leading -	0.85 lagging			
Peak efficiency	%	97.5	97.6	97.6	97.6	97.6	97.4	
CEC weighted efficiency	%	97	97	97	97.5	97	97	
Night-time power consumption	mW		60					
MECHANICAL DATA								
Ambient temperature range				-40°C to +60°C (-40°F to +140°F)			
Relative humidity range				4% to 100% (condensing)			
DC Connector type				МС	24			
Dimensions (HxWxD)			2	212 mm (8.3") x 175 mm	(6.9") x 30.2 mm (1.2	2")		
Weight				1.08 kg (2	2.38 lbs)			
Cooling				Natural convec	ction – no fans			
Approved for wet locations		Yes						
Pollution degree PD3								
Enclosure Class II double-insulated, corrosion resistant polymeric enclosure								
Environ. category / UV exposure rating NEMA Type 6 / outdoor								
COMPLIANCE								
		CA Rule 21 (UL 1741-	SA), UL 62109-1, UL174	11/IEEE1547, FCC Part 1	5 Class B, ICES-000	03 Class B, CAN/CSA-0	C22.2 NO. 107.1-01	
Certifications		This product is UL Listed as PV Rapid Shut Down Equipment and conforms with NEC 2014, NEC 2017, and NEC 2020 section 690.12 and C22.1-2018 Rule 64-218 Rapid Shutdown of PV Systems, for AC and DC conductors, when installed according to manufacturer's instructions.						
(1) The IQ8H-208 variant will be operating	in gri			ed DC/AC ratio. See				

(1) The IQ8H-208 variant will be operating in grid-tied mode only at 208V AC. (2) No enforced DC/AC ratio. See the compatibility calculator at https://link.enphase.com/module-compatibility (3) Maximum continuous input DC current is 10.6A (4) Nominal voltage range can be extended beyond nominal if required by the utility. (5) Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

Enphase IQ Combiner 4/4C

X-IQ-AM1-240-4 X-IQ-AM1-240-4C



The Enphase IQ Combiner 4/4C with Enphase IQ Gateway and integrated LTE-M1 cell modem (included only with IQ Combiner 4C) consolidates interconnection equipment into a single enclosure and streamlines IQ microinverters and storage installations by providing a consistent, pre-wired solution for residential applications. It offers up to four 2-pole input circuits and Eaton BR series busbar assembly.

Smart

- Includes IQ Gateway for communication and control
- Includes Enphase Mobile Connect cellular modem (CELLMODEM-M1-06-SP-05), included only with IQ Combiner 4C
- Includes solar shield to match Enphase IQ Battery aesthetics and deflect heat
- Flexible networking supports Wi-Fi, Ethernet, or cellular
- · Optional AC receptacle available for PLC bridge
- Provides production metering and consumption monitoring

Simple

- Centered mounting brackets support single stud mounting
- · Supports bottom, back and side conduit entry
- Up to four 2-pole branch circuits for 240 VAC plug-in breakers (not included)
- 80A total PV or storage branch circuits

Reliable

- Durable NRTL-certified NEMA type 3R enclosure
- · Five-year limited warranty
- Two years labor reimbursement program coverage included for both the IQ Combiner SKU's
- UL listed



To learn more about Enphase offerings, visit enphase.com

Enphase IQ Combiner 4/4C

MODEL NUMBER	
IQ Combiner 4 (X-IQ-AM1-240-4)	IQ Combiner 4 with Enphase IQ Gateway printed circuit board for integrated revenue grade PV production metering (AN: C12.20 +/- 0.5%) and consumption monitoring (+/- 2.5%). Includes a silver solar shield to match the IQ Battery system ar IQ System Controller 2 and to deflect heat.
IQ Combiner 4C (X-IQ-AM1-240-4C)	IQ Combiner 4C with Enphase IQ Gateway printed circuit board for integrated revenue grade PV production metering (ANSI C12.20 +/- 0.5%) and consumption monitoring (+/- 2.5%). Includes Enphase Mobile Connect cellular modem (CELLMODEM-M1-06-SP-05), a plug-and-play industrial-grade cell modem for systems up to 60 microinverters. (Available in the US, Canada, Mexico, Puerto Rico, and the US Virgin Islands, where there is adequate cellular service in the installation area.) Includes a silver solar shield to match the IQ Battery and IQ System Controller and to deflect hea
ACCESSORIES AND REPLACEMENT PARTS	(not included, order separately)
Ensemble Communications Kit COMMS-CELLMODEM-M1-06 CELLMODEM-M1-06-SP-05 CELLMODEM-M1-06-AT-05	 Includes COMMS-KIT-01 and CELLMODEM-M1-06-SP-05 with 5-year Sprint data plan for Ensemble sites 4G based LTE-M1 cellular modem with 5-year Sprint data plan 4G based LTE-M1 cellular modem with 5-year AT&T data plan
Circuit Breakers BRK-10A-2-240V BRK-15A-2-240V BRK-20A-2P-240V BRK-15A-2P-240V-B BRK-20A-2P-240V-B	Supports Eaton BR210, BR215, BR220, BR230, BR240, BR250, and BR260 circuit breakers. Circuit breaker, 2 pole, 10A, Eaton BR210 Circuit breaker, 2 pole, 15A, Eaton BR215 Circuit breaker, 2 pole, 20A, Eaton BR220 Circuit breaker, 2 pole, 15A, Eaton BR215B with hold down kit support Circuit breaker, 2 pole, 20A, Eaton BR220B with hold down kit support
EPLC-01	Power line carrier (communication bridge pair), quantity - one pair
KA-SOLARSHIELD-ES	Replacement solar shield for IQ Combiner 4/4C
KA-PLUG-120-3	Accessory receptacle for Power Line Carrier in IQ Combiner 4/4C (required for EPLC-01)
KA-ENV-PCBA-3	Replacement IQ Gateway printed circuit board (PCB) for Combiner 4/4C
X-IQ-NA-HD-125A	Hold down kit for Eaton circuit breaker with screws.
ELECTRICAL SPECIFICATIONS	
Rating	Continuous duty
System voltage	120/240 VAC, 60 Hz
aton BR series busbar rating	125 A
lax. continuous current rating	65 A
lax. continuous current rating (input from PV/storage)	64 A
/lax. fuse/circuit rating (output)	90 A
ranch circuits (solar and/or storage)	Up to four 2-pole Eaton BR series Distributed Generation (DG) breakers only (not included)
lax. total branch circuit breaker rating (input)	80A of distributed generation / 95A with IQ Gateway breaker included
nvoy breaker	10A or 15A rating GE/Siemens/Eaton included
Production metering CT	200 A solid core pre-installed and wired to IQ Gateway
Consumption monitoring CT (CT-200-SPLIT)	A pair of 200 A split core current transformers
AECHANICAL DATA	
Dimensions (WxHxD)	37.5 x 49.5 x 16.8 cm (14.75" x 19.5" x 6.63"). Height is 21.06" (53.5 cm) with mounting brackets.
Veight	7.5 kg (16.5 lbs)
mbient temperature range	-40° C to +46° C (-40° to 115° F)
Cooling	Natural convection, plus heat shield
nclosure environmental rating	Outdoor, NRTL-certified, NEMA type 3R, polycarbonate construction
Nire sizes	 20 A to 50 A breaker inputs: 14 to 4 AWG copper conductors 60 A breaker branch input: 4 to 1/0 AWG copper conductors Main lug combined output: 10 to 2/0 AWG copper conductors Neutral and ground: 14 to 1/0 copper conductors Always follow local code requirements for conductor sizing.
Altitude	To 2000 meters (6,560 feet)
NTERNET CONNECTION OPTIONS	
ntegrated Wi-Fi	802.11b/g/n
Cellular	CELLMODEM-M1-06-SP-05, CELLMODEM-M1-06-AT-05 (4G based LTE-M1 cellular modem). Note that an Enphase Mobile Connect cellular modem is required for all Ensemble installations.
Ethernet	Optional, 802.3, Cat5E (or Cat 6) UTP Ethernet cable (not included)
COMPLIANCE	
Compliance, IQ Combiner	UL 1741, CAN/CSA C22.2 No. 107.1, 47 CFR, Part 15, Class B, ICES 003 Production metering: ANSI C12.20 accuracy class 0.5 (PV production) Consumption metering: accuracy class 2.5
Compliance, IQ Gateway	UL 60601-1/CANCSA 22.2 No. 61010-1

To learn more about Enphase offerings, visit enphase.com

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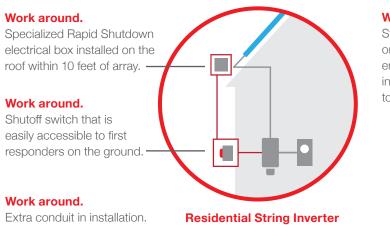
Rapid shutdown is built-in

The 2014 edition of the National Electrical Code (NEC 2014) added new rapid shutdown requirements for PV systems installed on buildings. Enphase Microinverters fully meet rapid shutdown requirements in the new code without the need to install any additional electrical equipment.

What's new in NEC 2014?

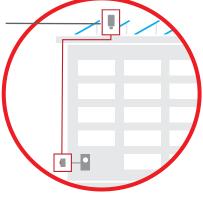
NEC 2014, Section 690.12 applies to PV conductors over 10 feet from the PV array and requires that the conductors power down to 30 volts and 240 volt-amperes within 10 seconds of rapid shutdown initiation.

String inverters require work arounds for rapid shutdown



Work around.

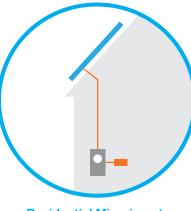
String inverter installed on roof, a hostile environment that string inverters are not built to live in.



Commercial String Inverter

Enphase comes standard with rapid shutdown capability

All Enphase microinverters, even those that were previously installed, inherently meet rapid shutdown requirements, no additional equipment or workarounds needed



Residential Microinverter

Enphase microinverters can safely shut down automatically, leaving only low-voltage DC electricity isolated to the PV module



Commercial Microinverter





RAIL SYSTEM

Instant Bonding

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



One Clamp Anywhere

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

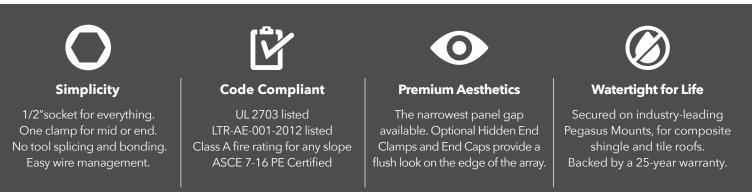
Lifetime Wire Management

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

Bonding Structural Splice - Connect rails instantly, without tools, interference or limitations.

Next-Level Solar Mounting

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





RAIL SYSTEM



Customer Portal. pegasussolar.com/portal

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

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.

Place L-Foot over cone

and install lag with

washer through



2

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



4

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



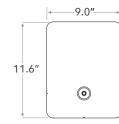


3

L-Foot.









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





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

Specifications



Load center, Homeline, 1 phase, 20 spaces, 40 circuits, 125A convertible main lugs, PoN, NEMA3R

HOM2040L125PRB

Product availability : Stock - Normally stocked in distribution facility

Price* : 413.64 USD

Main	
Product Type	Load Center
Marketing Trade Name	Homeline
Load Center Type	PoN Convertible Mains (lugs)
Rated Current	125 A
Number of Spaces	20
Maximum Number of Single Pole Circuits	40
Enclosure Rating	NEMA 3R outdoor
Cover Type	Surface cover
Electrical Connection	Lugs
Complementary	
Max Short Circuit Current Rating	10 kA
Maximum Number of Tandem Breakers	20
Number of Phases	1 phase
Voltage Rating	120/240 V AC
Wire Size	AWG 6AWG 2/0 aluminium AWG 6AWG 1/0 copper
Ground Bar	Grounding bar (ordered separately)
Wiring Configuration	3-wire
Busbar Material	Tin plated aluminium busbar
Enclosure Material	Welded galvannealed steel
Surface Finish	Baked enamel Gray
Box Number	4R
Bus Rated Current	125.0 A
Height	22.05 in (560 mm)
Width	14.76 in (375 mm)
Depth	4.53 in (115 mm)

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



Environment

Ambient Air Temperature for	23 °F (-5 °C)
Operation	104 °F (40 °C)
Product Certifications	UL listed file E-6294

Ordering and shipping details

Category	00145-HOM LC&CVR,12-42CKT NEMA3R	
Discount Schedule	DE3C	
GTIN	785901847557	
Returnability	Yes	
Country of origin	US	

Packing Units

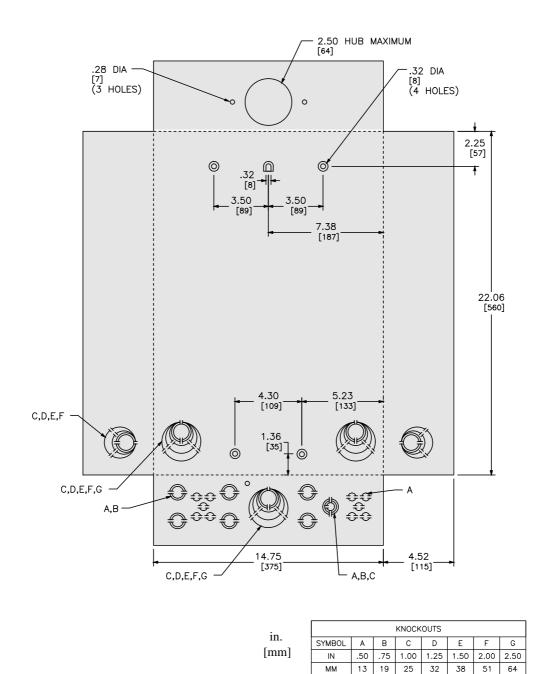
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.10 in (12.954 cm)
Package 1 Width	15.50 in (39.37 cm)
Package 1 Length	24.00 in (60.96 cm)
Package 1 Weight	23.80 lb(US) (10.795 kg)
Unit Type of Package 2	PAL
Number of Units in Package 2	40
Package 2 Height	46.00 in (116.84 cm)
Package 2 Width	40.00 in (101.6 cm)
Package 2 Length	48.00 in (121.92 cm)
Package 2 Weight	982.00 lb(US) (445.427 kg)

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
EU RoHS Directive	Compliant EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile

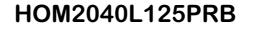
Technical Illustration

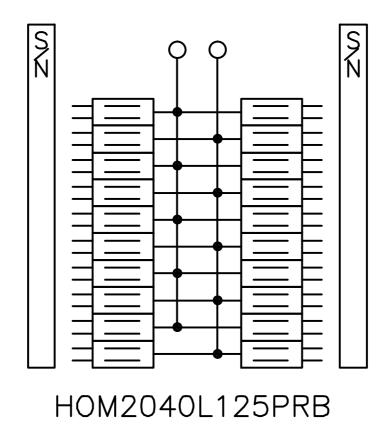
Dimensions



Dimensions are approximate. Refer to technical documentation for additional detail.

Technical Illustration





Recommended replacement(s)

Specifications



Safety switch, general duty, fusible, 200A, 3 wire, 2 poles, 1 neutral, 60hp, 240VAC, Type 3R, bolt on hub provision

D224NRB

Product availability : Stock - Normally stocked in distribution facility

Price* : 1,200.00 USD

Main

mann		
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	200 A	
Voltage Rating	240 V AC	
Enclosure Rating NEMA	NEMA 3R	
Maximum Horse Power Rating	15 hp 240 V at AC 60 Hz for 1 phase conforming to NEC 240.6 25 hp 240 V at AC 60 Hz for 3 phase conforming to NEC 240.6 60 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 6250 kcmil aluminium/copper
Tightening torque	275 lbf.in (31.07 N.m) (AWG 6250 kcmil)
Depth	8.5 in (215.90 mm)
Width	19 in (482.60 mm)
Height	29.25 in (742.95 mm)
Net Weight	53.51 lb(US) (24.27 kg)

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

UL listed file E2875

Category	00106-D & DU SW,NEMA3R, 30-200A
Discount Schedule	DE1A
GTIN	785901460763
Nbr. of units in pkg.	1
Package weight(Lbs)	42.70 lb(US) (19.368 kg)
Returnability	Yes
Country of origin	US

Packing Units	
Unit Type of Package 1	PCE
Package 1 Height	8.50 in (21.59 cm)
Package 1 width	19.50 in (49.53 cm)
Package 1 Length	30.50 in (77.47 cm)
Unit Type of Package 2	PAL
Number of Units in Package 2	15
Package 2 Weight	670.00 lb(US) (303.907 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)

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	
Toxic heavy metal free	Yes	
Mercury free	Yes	
RoHS exemption information	Yes	
China RoHS Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)	
Environmental Disclosure	Product Environmental Profile	
PVC free	Yes	

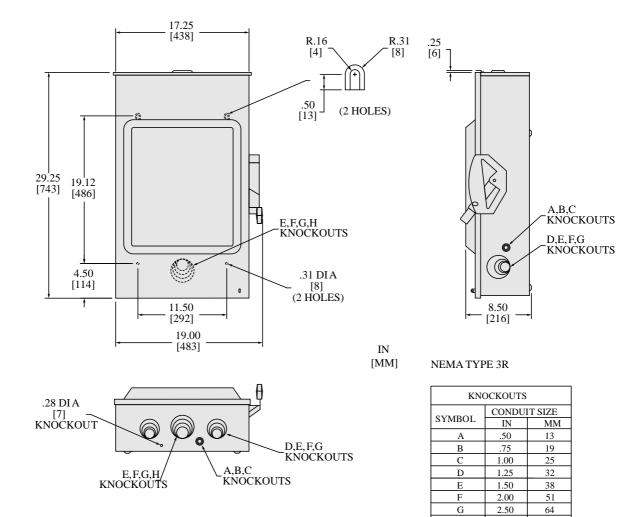
Contractua	l warranty
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Warranty

18 months

Technical Illustration

Dimensions



Н

3.00

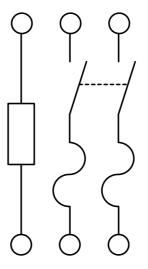
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WHEN MOUNTING THESE SWITCHES, ALLOW 4.00 [102] MIN CLEARANCE BETWEEN ENCLOSURES FOR OPENING OF SIDE HINGED DOOR.

TOP OF NEM A TYPE 3R DEVICES H AVE PROVISIONS FOR MAXIMUM 2.50 [64] BO LT-ON HUB. ALL DIMENSIONS ARE APPROXIMATE. REFER TO TECHNICAL DRAWINGS AND DOCUMENTATION. Technical Illustration

Wiring Diagram

FUSIBLE



D224NRB