SR.# PHOTOVOLTAIC ROOF MOUNT SYSTEM **PROJECT INFORMATION** 1 **PV MODULES** 2 **INVERTER** THE INSTALLATION OF SOLAR ARRAYS AND PHOTOVOLTAIC POWER SYSTEMS SHALL COMPLY 3 **ROOF TYPE** WITH THE FOLLOWING CODES: 2020 NATIONAL ELECTRICAL CODE RACKING 2018 NORTH CAROLINA RESIDENTIAL CODE

5

6

8

50

Harnett

MOUNTING TYPE

DC SIZE

PV8

KB Home

Birchwood Grove

29 Dekalb Ct,

Fuquay-Varina, NC..



Raleigh NC 27616 O: 919.948.6474 E: info@8msolar.com

7	AC SIZE	AC SIZE 8.99 KVA				
SR.#	PROJECT INFORMATION					
1	PV1	DRAWING INDEX				
2	PV2	SITE LAYOUT				
3	PV3	STRING MAPPING				
4	PV4	ELECTRICAL ONE LINE DIAGRAM				
5	PV5	DETAILED ELECTRICAL WIRING SCHEMATIC				
6	PV6	PV LABELS				
7	PV7	BILL OF MATERIALS				

Customer Information:

Cory Kolek

29 Dekalb Court Fuquay-Varina NC 27526

Customer Signature:

Sheet Name:

Drawing Index

JOB NUMBER:

23-125-CK

1	

ATTACHMENT DETAILS

31 x SOLARIA POWERXT 430R-PL

31 x IQ8PLUS-72-2-US

ASPHALT SHINGLES

PSR-B84 RAILS (BLACK)

COMP MOUNT FLASHING (BLACK)

13.33 KW

Date:	Revision:
04/05/2023	А
Sheet Size:	Sheet Number:
ANSI C 17" X 22"	PV1

CERTIFIED '
PV Installation Professional
Ali Buttar PVIP #031310-32

SITE NOTES / OSHA REGULATION A LADDER SHALL BE IN PLACE FOR INSPECTION IN COMPLIANCE WITH OSHA REGULATIONS. THE SOLAR PV INSTALLATION SHALL NOT OBSTRUCT ANY PLUMBING, MECHANICAL, OR BUILDING ROOF VENTS.

- ROOFTOP MOUNTED PHOTOVOLTAIC PANELS AND MODULES SHALL BE TESTED, LISTED AND IDENTIFIED BY RECOGNIZED ELECTRICAL TESTING LABORATORY.
- MODULES AND SUPPORT STRUCTURES SHALL BE GROUNDED
- SOLAR INVERTER SHALL BE LISTED TO UL1741

2018 NORTH CAROLINA BUILDING CODE

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

ALL OTHER ORDINANCE ADOPTED BY THE LOCAL GOVERNING AGENCIES

- REMOVAL OF AN INTERACTIVE INVERTER OR OTHER EQUIPMENT SHALL NOT DISCONNECT THE BONDING CONNECTION BETWEEN THE GROUNDING ELECTRODE CONDUCTOR, THE PHOTOVOLTAIC SOURCE AND OUTPUT CIRCUIT GROUNDED CONDUCTORS.
- 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.
- ALL PV MODULES AND ASSOCIATED EQUIPMENT AND WIRING SHALL BE PROTECTED FROM PHYSICAL DAMAGE.

SOLAR CONTRACTOR

CODE AND STANDARDS

- 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.
- AS INDICATED BY DESIGN, OTHER NRTL LISTED MODULE GROUNDING DEVICES MAY BE USED IN PLACE OF STANDARD GROUNDING LUGS AS SHOWN IN MANUFACTURER DOCUMENTATION AND APPROVED BY THE AHJ.
- ALL MICROINVERTERS, PHOTOVOLTAIC MODULES, AC COMBINERS, DC-AC CONVERTERS AND SOURCE CIRCUIT COMBINERS INTENDED FOR USE IN A PHOTOVOLTAIC POWER SYSTEM WILL BE IDENTIFIED AND LISTED FOR THE APPLICATION PER NEC690.4(B).
- ALL SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH LOCAL BUILDING CODE.
- 6. TERMINALS AND LUGS WILL BE TIGHTENED TO MANUFACTURER TORQUE SPECIFICATIONS (WHEN PROVIDED) IN ACCORDANCE WITH NEC CODE 110.14(D) ON ALL ELECTRICAL CONNECTIONS.
- 7. MAX DC VOLTAGE CALCULATED USING MANUFACTURER PROVIDED TEMP COEFFICIENT FOR VOC UNLESS NOT AVAILABLE.

DESIGN CRITERIA WIND SPEED: 135 MPH **GROUND SNOW LOAD: 20 PSF** WIND EXPOSURE FACTOR: B

UTILITY COMPANY: DUKE ENERGY

PERMIT ISSUER (AHJ): HARNETT COUNTY

SCOPE OF WORK INSTALLATION OF UTILITY INTERACTIVE PHOTOVOLTAIC SOLAR SYSTEM.

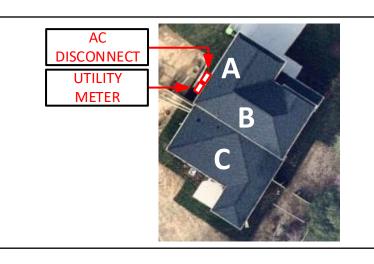
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VICINITY MAP

TOP VIEW OF THE BUILDING

ROOF DESCRIPTION		MODULE DIMENSIONS		PV System Dead Load				
ROOFS	PITCH	AZIMUTH	NO. OF MODULES	42.48 in.		Weight of panel(lbs	weight) / PV System .) +Length of racking(ht x Width) = Total p	ft.) x 1.15 lb.ft) /
Α	34°	302°	08	<u>.</u>	,	T	,	
В	34°	213°	12	7.05 i	ROOFS	A	В	С
С	19°	213°	11					
					DEAD LOAD (PSF)	2.58	2.61	2.49
Vent		Roof C has noNo vents will	vents be covered by PV					

modules during the installation



SYSTEM DETAILS

DC SIZE: 13.33 kW

AC SIZE: 8.99 kVA

NUMBER OF PANELS: 31

PANELS MODEL: SOLARIA POWERXT 430R-PL



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Sheet Name:

Site Layout

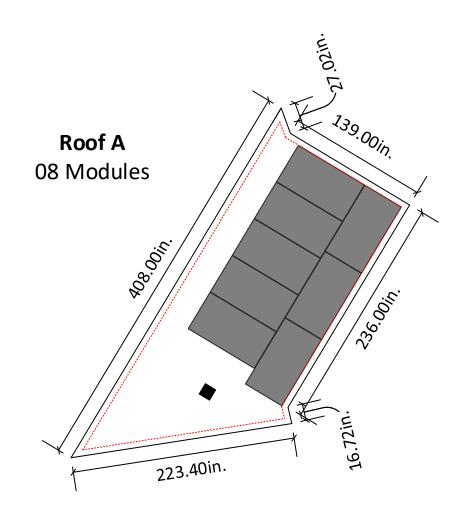
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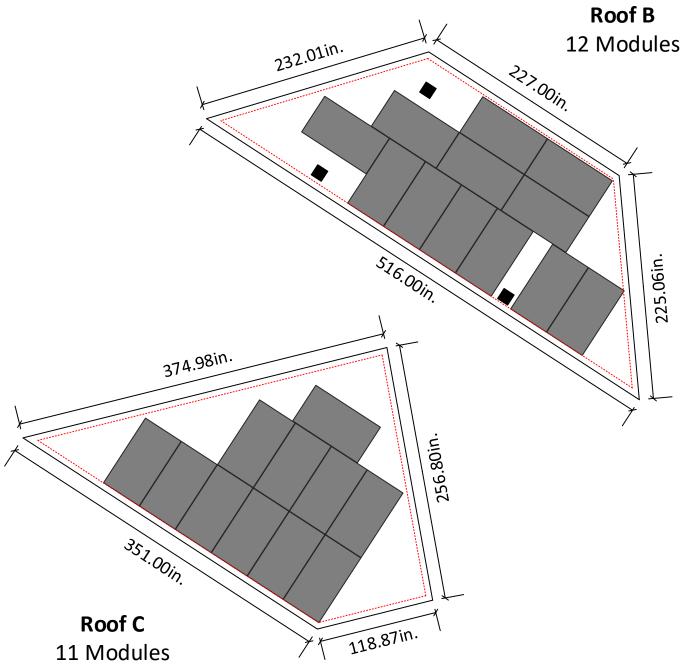
PV Installation Professional

Ali Buttar PVIP #031310-32

23-125-CK

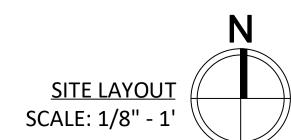
Date:	Revision:
04/05/2023	А
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ANSI C 17" X 22"	PV2
NABCEP CERTIFIED	



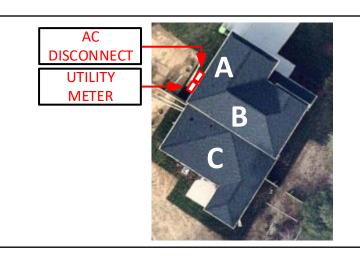


6in setback from sides of the roof

SITE LAYOUT SCALE: 1/8" - 1'



ROOF DESCRIPTION			MODU	LE DIMENSIONS	STRING LAYOUT						
ROOFS	PITCH	AZIMUTH	NO. OF MODULES]	₹ 42.48 in.			ENPHASE IQ	COMBINER 4	ŀ	
			MIODOLES			Strings #	No. of	Color	Strings #	No. of	Color
Α	34°	302°	08	. <u>⊆</u>		Julings #	Modules	COIOI	Julies #	Modules	COIOI
В	34°	213°	12	.05		String 1	12				
С	19°	213°	11	77		String 2	11				
				,							
						String 3	08				
		•		L			<u> </u>				



SYSTEM DETAILS

NUMBER OF PANELS: 31

PANELS MODEL: SOLARIA POWERXT 430R-PL

DC SIZE: 13.33 kW AC SIZE: 8.99 kVA



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Sheet Name:

String Mapping

JOB NUMBER:

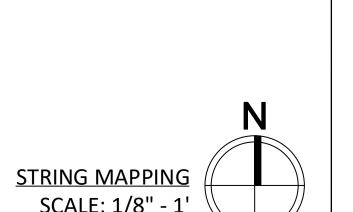
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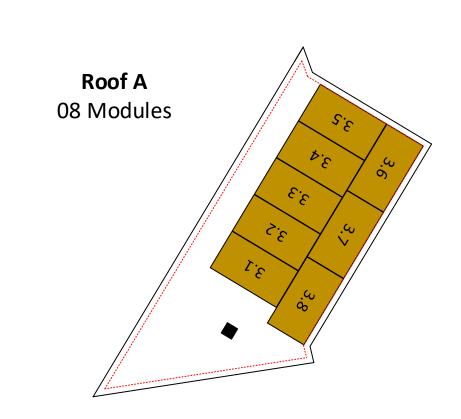
PV Installation Professional

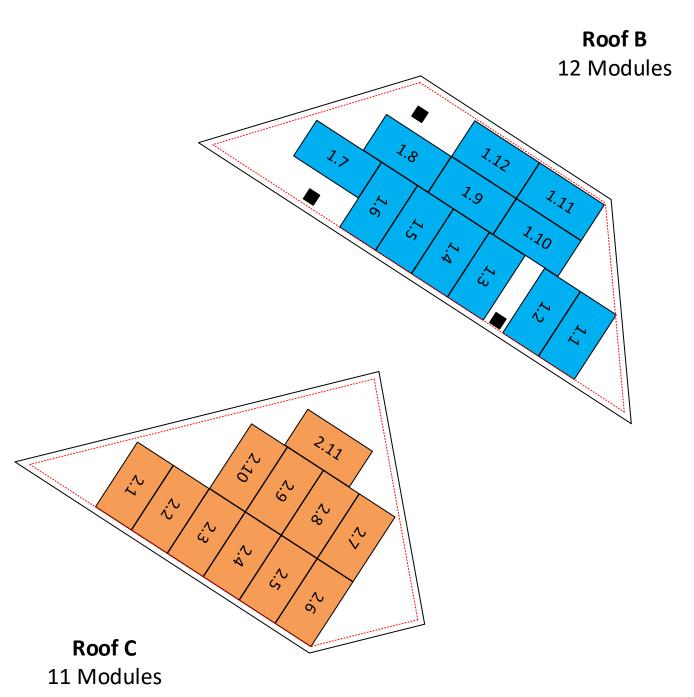
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Date:	Revision:
04/05/2023	А
Sheet Size:	Sheet Number:
ANSI C 17" X 22"	PV3







6in setback from sides of the roof

STRING MAPPING SCALE: 1/8" - 1'

STRING CALCULATION						
String #	No of Modules	Estimated Power	lmax	Voc	Vmpp	Vrise (<= 2%)
1	12	5,160 W	18.15 AC	<30	240V AC	1.18+0.63 = 1.81
2	11	4,730 W	16.63 AC	<30	240V AC	0.96+0.35 = 1.31
3	08	3,440 W	12.1 AC	<30	240V AC	0.62+0.42 = 1.04

NEC Code and UL Standard Refrences						
Rapid Shut Down NEC 690.12 (A-D), UL1741 Grounding NEC Article 250.30(
Disconnecting Means	NEC 690.13	Conduit Fill	NEC Table C.9, 310.15(B)(3)(a)			
Feeder Sizing	NEC Table 310, 15(B)(16, 17)	Interconnection	NEC 705.12			
Over current Protection	NEC 690.9					

NEW METER BASE TO BE

FROM UTILITY

Utility

SUB LOAD PANEL

8 M S O L A R

Note: Power Drop Required: Service Side Work

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Sheet Name:

Electrical One Line Diagram

JOB NUMBER:

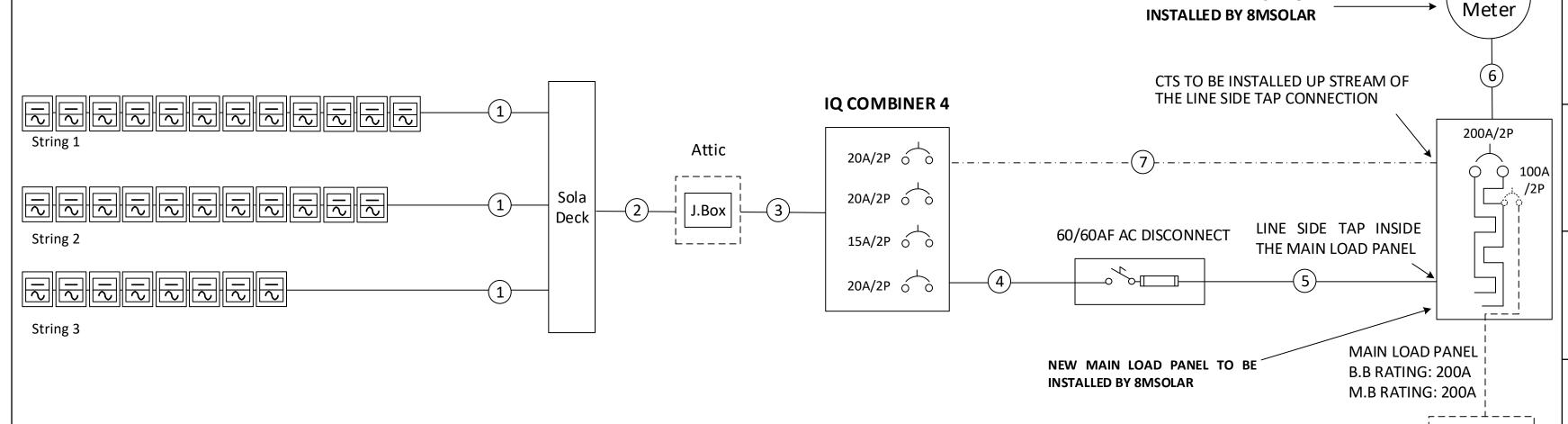
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B.B RATING: 225A **Sheet Size:**

Sheet Number: |
ANSI C

ANSI C 17" X 22"



• System Size: 13,330W DC

31 X SOLARIA POWERXT 430R-PL

RAPID SHUTDOWN EQUIPPED

ENPHASE IQ8PLUS-72-2-US MICROINVERTERS

430W

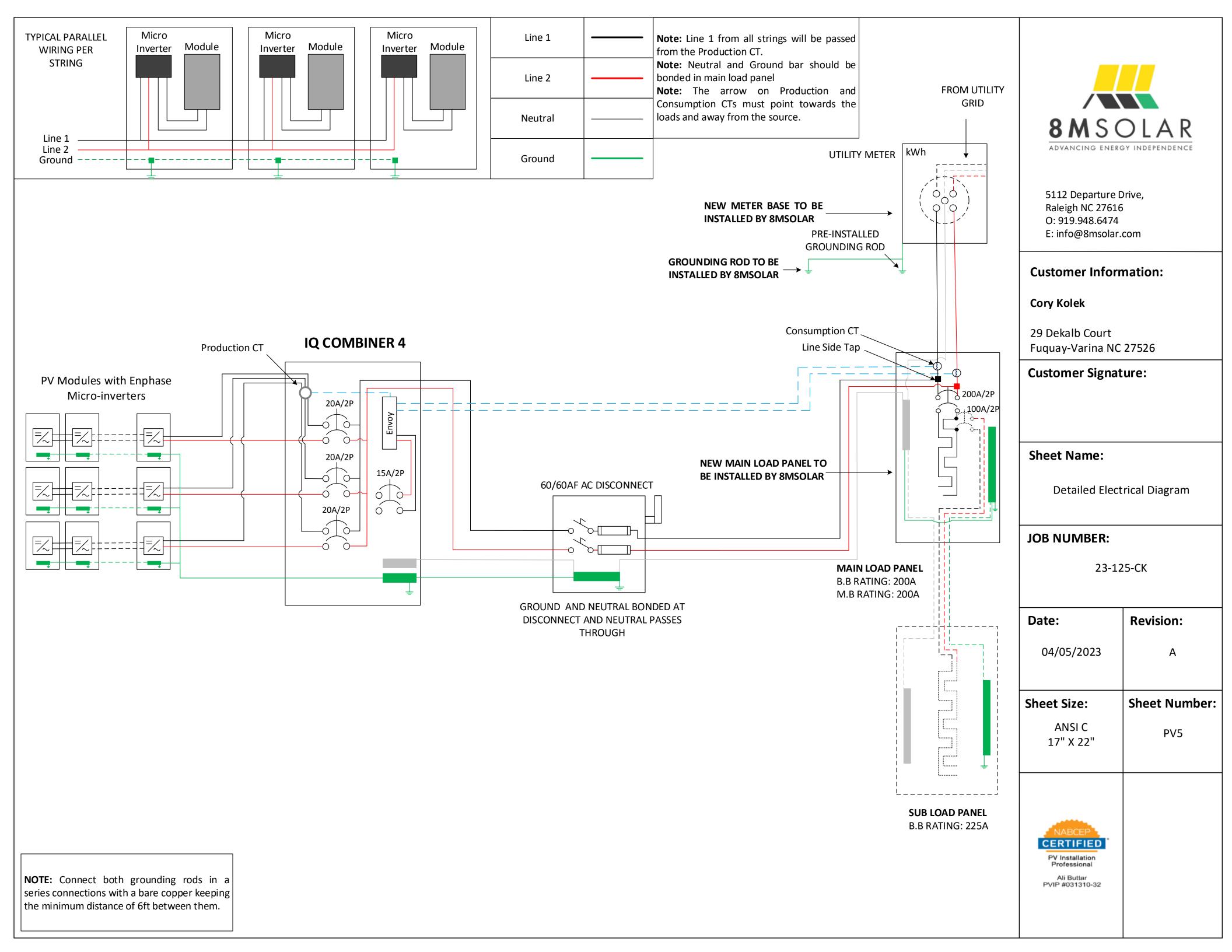
290VA

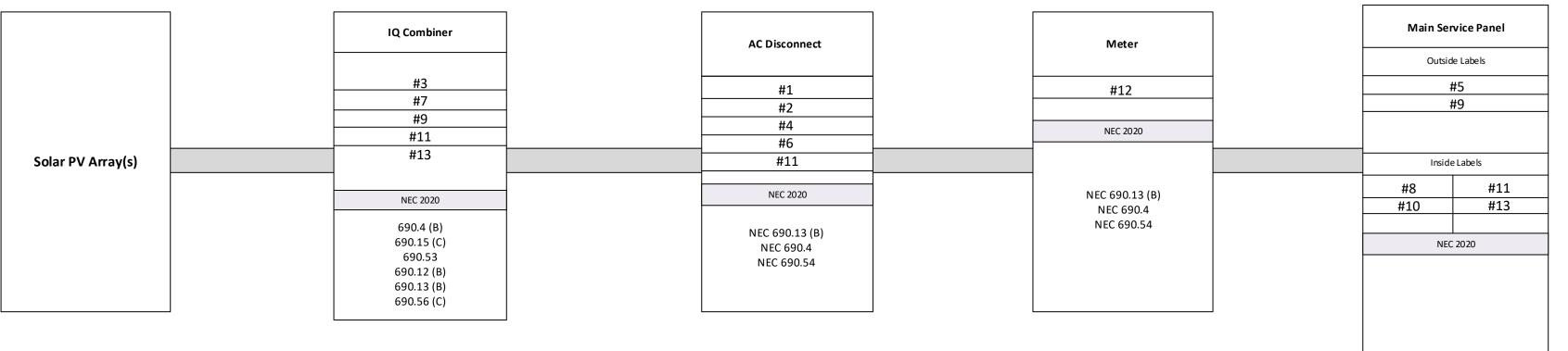
- (31) SOLARIA POWERXT 430R-PL
- (31) ENPHASE IQ8PLUS-72-2-US MICROINVERTERS
- Inverter Output: 1.21A max @ 240 VAC (each microinverter)
- 290 VA AC output max (each micro inverter)
- 8.99 kVA AC output max

- Grounding will be done via Pegasus grounding lugs and mid-clamps to ensure the rail and panels are continuously grounded.
- 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 labelled as per NEC requirements. It will be located on the exterior wall of the building, next to the utility meter.

Sr.No	#Wire	Conduit Size	Ground Wire	Amperage
1	1 x #12 Q Cable		#10 Bare CU	20
2	3 x #10 MC Cable			20
3	6 x #10 THHN Cu	3/4" EMT	#10 Green	20
4	3 x #6 THHN Cu	1" EMT	#8 Green	60
5	3 x #6 THHN Cu	1" EMT		60
6	3 x #3/0 THHN Cu	2" PVC		200
7	Lead Wire 18AWG, PVC Extruded	3/4" EMT		







8 M S O L A R ADVANCING ENERGY INDEPENDENCE

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! WARNING

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

#9 WARNING

DUAL POWER SUPPLY
SOURCES: UTILITY GRID AND
PV SOLAR ELECTRIC SYSTEM

#10 WARNING

TURN OFF PHOTOVOLTAIC
AC DISCONNECT PRIOR TO
WORKIN INSIDRE PANEL

#11 NARNING

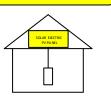
ELECTRIC SHOCK HAZARD
TERMIONAL OM THE LINE AND LOAD
SIDES MAY BE ENERGIZED IN THE OPEN
POSITION

#12 ! WARNING

THIS SERVICE METER
IS ALSO SERVED BY A PHOTOVOLTAIC
SYSTEM

#13 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



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

SOLAR PV SYSTEM

RAPID SHUTDOWN
SWITCH FOR

#3 PHOTOVOLTIVC POWER SOURCE

OPERATING AC VOLTAGE 240 V

MAXIMUN OPERATING AC OUTPUT CURRENT 46.88 A

AC DISCONNECT

PHOTOVOLTAIC SYSTEM

POWER SOURCE

RATED AC

OUTPUT CURRENT

NOMINAL OPERATING
AC VOLTAGE

240 VOLTS

#5
SOLAR AC DISCONNECT
LOCATED AT NORTH-WEST SIDE
WALL OF THE HOUSE BESIDE
THE MAIN LOAD PANEL

#6
SERVICE DISCONNECT LOCATED
INSIDE THE MAIN LOAD PANEL

PHOTOVOLTAIC SYSTEM
COMBINER PANEL
DO NOT ADD LOADS

Customer Information:

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Customer Signature:

Sheet Name:

PV Labels

JOB NUMBER:

23-125-CK

Date: Revision:

04/05/2023 A

Sheet Size: Sheet Number:

PV6

ANSI C 17" X 22"

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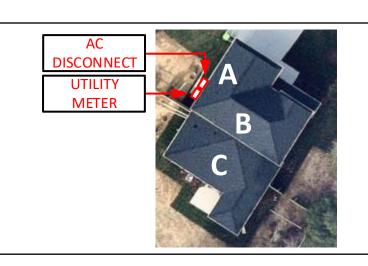
PV Installation
Professional

Ali Buttar

PVIP #031310-32

	ROOF DESC	MODULE DIMENSIONS		
ROOFS	PITCH	AZIMUTH	NO. OF MODULES	42.48 in.
А	34°	302°	08	<u>.</u>
В	34°	213°	12	77.05
С	19°	213°	11	77

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 135mph wind zone





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Sheet Name:

Bill of Material

JOB NUMBER:

CERTIFIED

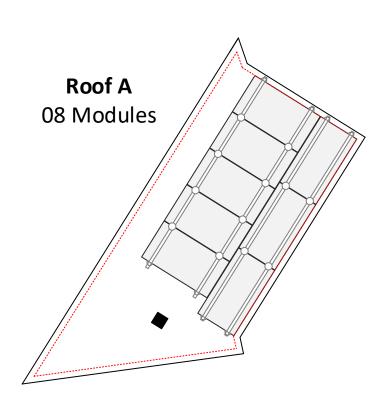
PV Installation Professional

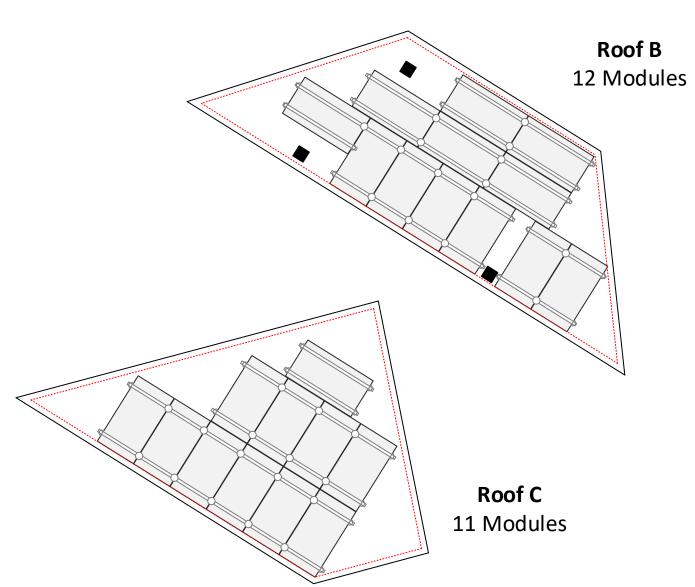
Ali Buttar PVIP #031310-32

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ANSI C 17" X 22"	PV7	

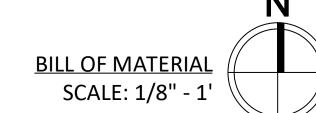


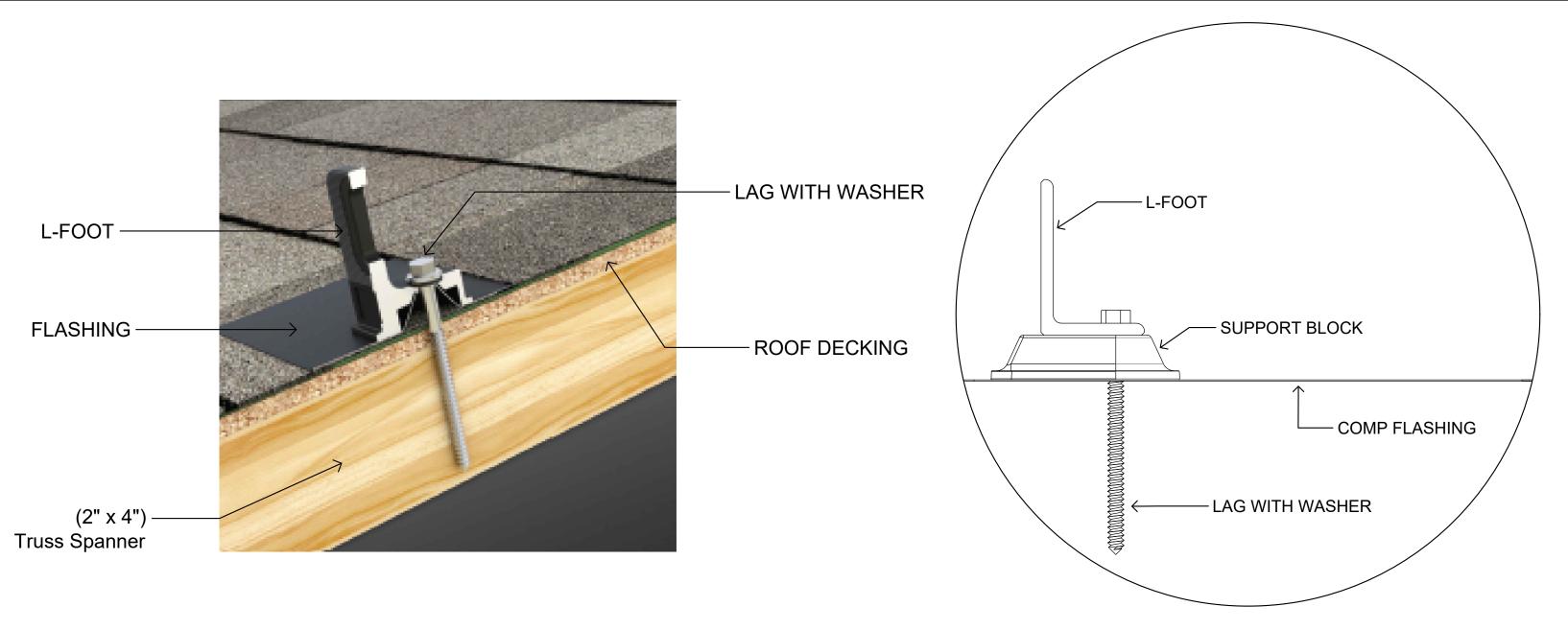


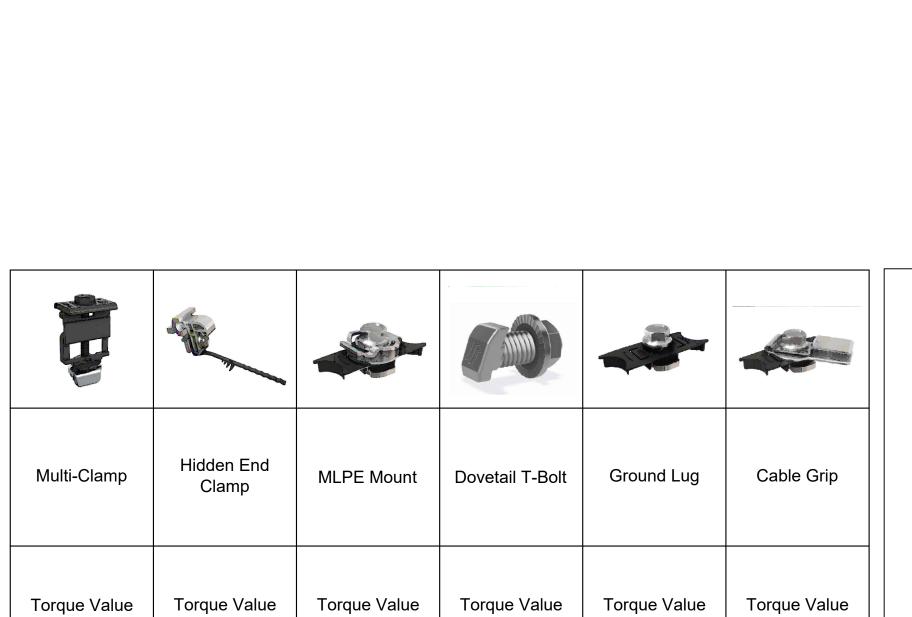


PV LABELS			RAILS AND MOUNTING SYSTEM • 50 x PSR-B84: Pegasus Rail, Black, 84" (7 Feet) • 30 x PSR-SPL: Pegasus - Bonded, Structural Splice • 42 x PSR-MCB: Pegasus - Multiclamp, Mid/End, 30 to 40 mm, Black
Sr No	Code	Qty	 40 x PSR-HEC: Pegasus - Hidden End Clamp 31 x PSR-MLP: Pegasus - MLPE Mount 14 x PSR-LUG: Pegasus - Grounding Lug
01	03-302	01	 47 x PSR-WMC: Pegasus - Wire Management Clip 06 x PSR-CBG: Pegasus - Cable Grip 40 x PSR-CAP: Pegasus - End Cap
02	02-316	01	 78 x PSCR-UBBDT: Pegasus Comp Mount - Open Slot, Black L Foot, Black Flashing, Dovetail 3/8" T-Bolt 62 x Heyco Wire Clips
03	03-390	01	
04	03-306	01	SOLAR MODULES • 31 x SOLARIA POWERXT 430R-PL INVERTER & SUPPORTING ITEMS
05	8M-001	01	 31 x Enphase IQ8PLUS-72-2-US micro inverter 01 x X-IQ-AM1-240-4 IQ Combiner 4
06	8M-002	01	 ENPHASE CABLES AND ACCESSORIES 25 x Q-12-10-240: Q Cable 12 x Q-12-20-200: Q Cable
07	03-355	01	 01 x Q-12-RAW-300:Q Cable, 12 AWG (40ft) 09 x Q-CONN-10M Male Field-wireable connector 09 x Q-CONN-10F Female Field-wireable connector
08	05-108	01	 03 x Q-TERM-10: Terminator Cap 04 x Q-SEAL-10: Female Sealing Cap 01 x Q-CLIP-100: Q Cable rail mount cable management clip (Pack of 100)
09	05-211	02	01 x Q-DISC-10: Disconnect tool
10	05-372	01	 ELECTRICAL ITEMS 03 x Eaton BR220B with hold down kit support (Circuit breaker, 2 pole, 20A) 01 x UAT417-XGF: 200A Meter Base
11	05-215	03	 01 x QOM2200VH: 200A Main breaker, 2 pole 01 x QO112L200GRB: Square D 'QO' 200 Amp 12-Space 12-Circuit Outdoor Main Lug Load Center with Ground Bar
12	07-359	01	 02 x IPCS 4002: Line/Load Side Hot Taps (#4/0 main - #2-10 tap) Medium types 01 x D222NRB: 250volt/60amp/2pole fusible disconnect (NEMA 3R)
13	07-111	02	 02 x SQUARE D FRNR60: 250volt/60amp fuses 01 x EZSLR JB-1.2: SolaDeck Box 05 x FM-CM-001-B: Roof Flashing Conduit Supports

6in setback from sides of the roof







300 in-lbs.

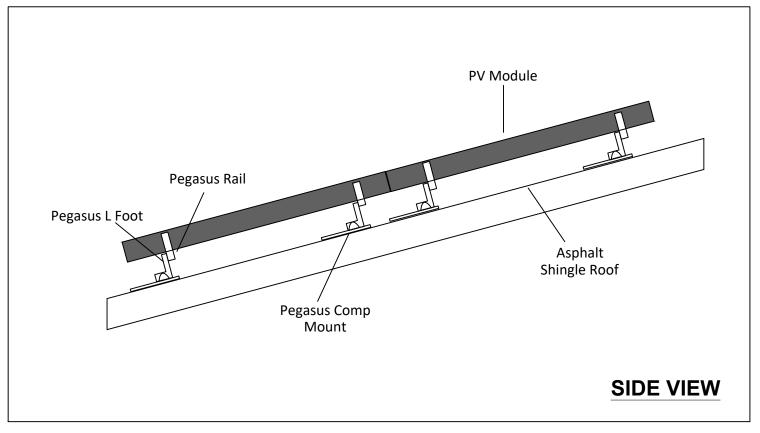
135 in-lbs.

135 in-lbs.

100 in-lbs.

135 in-lbs.

135 in-lbs.





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ANSI C 17" X 22"	PV8	





Solaria PowerXT 430R-PL

Achieving over 20% efficiency, Solaria PowerXT solar panels are one of the highest power panels in the residential and commercial solar market. Compared to conventional panels, Solaria PowerXT panels have fewer gaps between the solar cells; this leads to higher power and superior aesthetics. Solaria PowerXT Pure Black™ panels are manufactured with black backsheet and frames, enhancing a home or building's architectural beauty.



High Efficiency, High Power

Solaria PowerXT panels achieve up to 20.4% efficiency. Solaria PowerXT panels are one of the highest power panels available.



High Quality and Reliability

Solder-less cell interconnections are highly reliable and designed to far exceed the industry leading 30 year warranty.



Improved Aesthetics

Compared to conventional panels, Solaria PowerXT panels have a more uniform appearance and superior aesthetics.



Lower System Costs

Solaria PowerXT 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, within each of the four panel quadrants, which dramatically lowers the shading losses and boosts energy yield.



PID Resistant

Solaria PowerXT panels are PID resistant. This insures stable and predictable energy production over time.



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 PowerXT		420R-PL	430R-PL	
Max Power (Pmax)	[W]	420	430	
Efficiency	[%]	19.9	20.4	
Open Circuit Voltage (Voc)	[V]	45.7	45.7	
Short Circuit Current (Isc)	[A]	11.60	11.87	
Max Power Voltage (Vmp)	[V]	37.9	37.9	
Max Power Current (Imp)	[A]	11.09	11.35	
Power Tolerance	[%]	-0/+3	-0/+3	

Performance at NOCT	(800W/m², 20°C Amb,	Wind 1	m/s, AM 1.5)
Max Power (Pmax)	[W]	310	3

[VV]	310	317
[V]	43.0	43.0
[A]	9.36	9.57
[V]	34.6	34.6
[A]	8.95	9.15
	[V] [A] [V]	[V] 43.0 [A] 9.36 [V] 34.6

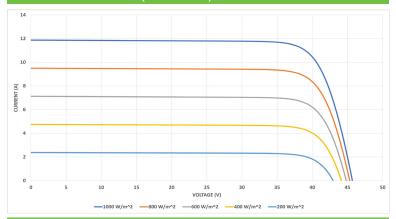
Temperature Characteristics

NOCT	[°C]	45 +/-2
Temp. Coeff. of Pmax	[% / °C]	-0.39
Temp. Coeff. of Voc	[% / °C]	-0.29
Temp. Coeff. of Isc	[% / °C]	+0.04

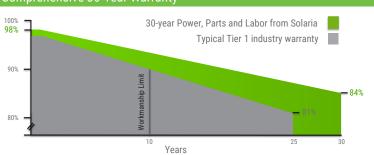
Design Parameters

[°C]	-40 to +85
[V]	1000
[A]	20
[#]	4
	[V] [A]

IV Curves vs. Irradiance (430W Panel)



Comprehensive 30-Year Warranty



Mechanical Characteristics

Cell Type	Monocrystalline Silicon
Dimensions (L x W x H)	77" x 42.5" x 1.38"
	1957mm x 1079mm x 35mm
Weight	21.7 kg / 47.8 lbs
Glass Type / Thickness	AR Coated, Tempered / 2.8mm
Frame Type	Black Anodized Aluminum
Cable Type / Length	12 AWG PV Wire (UL) / 1200mm
Connector Type	MC4
Junction Box	IP68 / 4 diodes
Front Load	5400 Pa / 113 psf*
Rear Load	3600 Pa / 75 psf*

^{*} Refer to Solaria Installation Manual for details

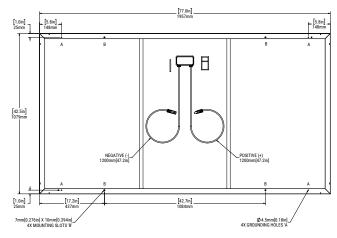
Certifications / Warranty

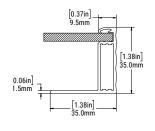
* Warranty details at www.solaria.com

Certifications	UL 61730 / IEC 61215 / IEC 61730
	CEC & FSEC Listed
Fire Type (UL 1703)	1
Warranty	30 years*

Packaging

Stacking Method	Horizontal / Palletized
Panels/ Pallet	29
Pallet Dims (L x W x H)	78.7" x 45" x 50.1"
	2000mm x 1143mm x 1273mm
Pallet Weight	696 kg / 1533 lbs
Pallets / 40-ft Container	22
Panels / 40-ft Container	638











IQ8 Series Microinverters

Our newest IQ8 Microinverters are the industry's first microgrid-forming, software-defined 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.



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



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 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

- * 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.

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IQ8 Series Microinverters

INPUT DATA (DC)		IQ8-60-2-US	IQ8PLUS-72-2-US	IQ8M-72-2-US	IQ8A-72-2-US	IQ8H-240-72-2-US	IQ8H-208-72-2-U
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 and 72-cell/144 half-cell			II		
MPPT voltage range	٧	27 - 37	29 - 45	33 – 45	36 - 45	38 - 45	38 - 45
Operating range	٧	25 – 48			25 - 58		
Min/max start voltage	٧	30 / 48			30 / 58		
Max input DC voltage	٧	50			60		
Max DC current ³ [module lsc]	Α			1:	5		
Overvoltage class DC port				I	I		
DC port backfeed current	mA	0					
PV array configuration		1x1 Ungrounded	array; No additional D	C side protection requ	ired; AC side protecti	on requires max 20A p	er branch circuit
OUTPUT DATA (AC)		IQ8-60-2-US	IQ8PLUS-72-2-US	IQ8M-72-2-US	108A-72-2-US	IQ8H-240-72-2-US	IQ8H-208-72-2-U
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/range⁴	٧			240 / 211 - 264			208 / 183 - 250
Max continuous output current	Α	1.0	1.21	1.35	1.45	1.58	1.73
Nominal frequency	Hz			6	0		
Extended frequency range	Hz			50 -	- 68		
AC short circuit fault current over 3 cycles	Arms	5		2			4.4
Max units per 20 A (L-L) branch circuit ⁵		16	13	11	11	10	9
Total harmonic distortion				<5	5%		
Overvoltage class AC port				I	II		
AC port backfeed current	mA			3	0		
Power factor setting				1.	0		
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			6	0		
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				М	C4		
Dimensions (HxWxD)			:	212 mm (8.3") x 175 mm	ı (6.9") x 30.2 mm (1.2	")	
Weight				1.08 kg (2.38 lbs)		
Cooling		Natural convection - no fans					
Approved for wet locations				Ye	es		
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, UL17	41/IEEE1547, FCC Part	15 Class B, ICES-000	3 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 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





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 (ANSI C12.20 +/- 0.5%) and consumption monitoring (+/- 2.5%). Includes a silver solar shield to match the IQ Battery system and 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 heat.
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
XA-SOLARSHIELD-ES	Replacement solar shield for IQ Combiner 4/4C
XA-PLUG-120-3	Accessory receptacle for Power Line Carrier in IQ Combiner 4/4C (required for EPLC-01)
XA-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
Eaton BR series busbar rating	125 A
Max. continuous current rating	65 A
Max. continuous current rating (input from PV/storage)	64 A
Max. fuse/circuit rating (output)	90 A
Branch circuits (solar and/or storage)	Up to four 2-pole Eaton BR series Distributed Generation (DG) breakers only (not included)
Max. total branch circuit breaker rating (input)	80A of distributed generation / 95A with IQ Gateway breaker included
Envoy 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
MECHANICAL 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.
Weight	7.5 kg (16.5 lbs)
Ambient temperature range	-40° C to +46° C (-40° to 115° F)
Cooling	Natural convection, plus heat shield
Enclosure environmental rating	Outdoor, NRTL-certified, NEMA type 3R, polycarbonate construction
Wire 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)
INTERNET CONNECTION OPTIONS	
Integrated 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



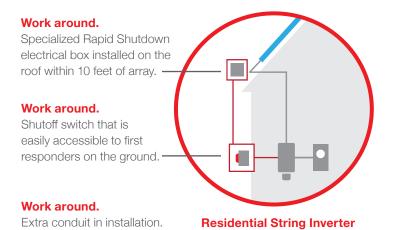
Rapid shutdown is built-in

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?

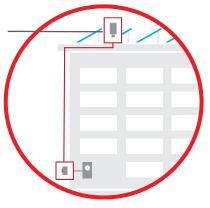
NEC 2014, Section 690.12 applies to PV conductors over 10 feet from the PV array and requires that the conductors power down to 30 volts and 240 volt-amperes within 10 seconds of rapid shutdown initiation.

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



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

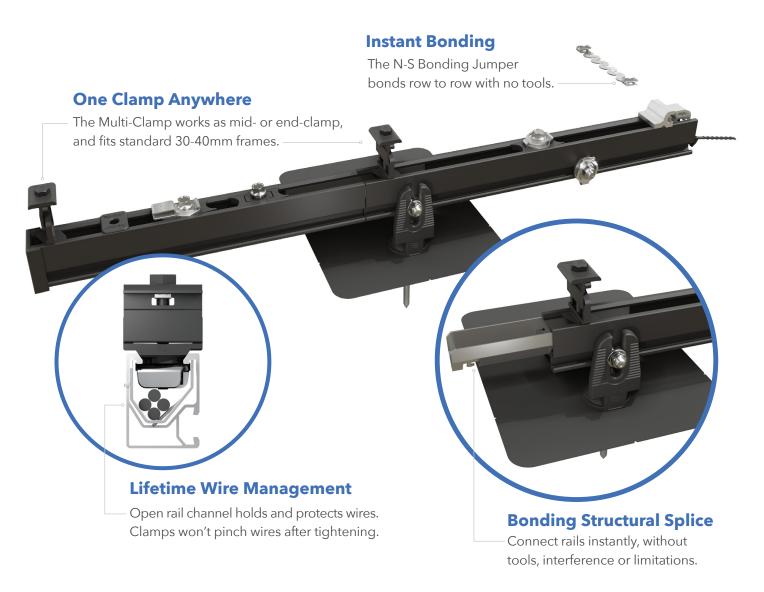


Commercial Microinverter





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.

LO	LOAD		SPA	AN	
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.



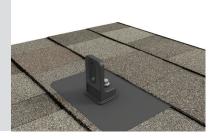
2Optional: Apply a
"u-shape" of sealant to
the underside of the
flashing and position
under 2nd shingle
course, cone over
pilot hole.



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

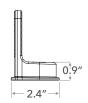


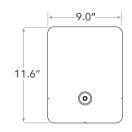
4Drive lag to required depth. Attach rail per rail manufacturer's instructions.



1.5" 3.5"









SPECIFICATIONS	COMP MOUNT INSTALL KITS				
SKU	PSCR-CBB0	PSCR-UBB0	SPCR-CBBH	PSCR-CMM0	PSCR-UMM0
Finish	Blac	k L-Foot And Black Flash	N	lill	
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 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



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

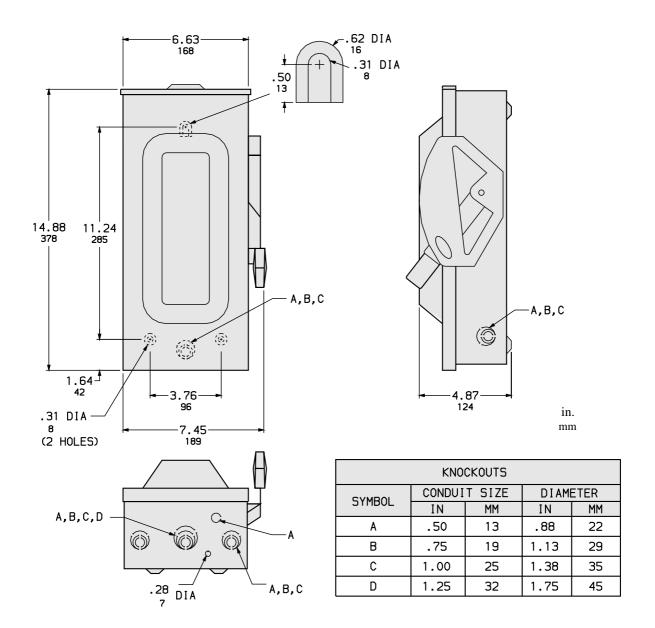
Complementary

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	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
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

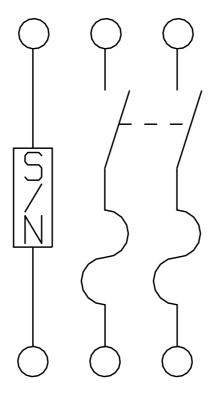
Dimensions



ALL DIMENSIONS ARE APPROXIMATE.
REFER TO TECHNICAL DRAWINGS AND DOCUMENTS

Wiring Diagram

FUSIBLE



D222NRB