PHOTOVOLTAIC ROOF MOUNT SYSTE	SR.#		
	NOTICE TO CONTRACTOR All construction mut comply with current NG Building Codes and is subject to field impection and verification. AppROVED Limited building copy review Perification and the subject of	1	PV MODU
<u>CODE AND STANDARDS</u>	05/08/2023	2	INVERT
THE INSTALLATION OF SOLAR ARRAYS AND PHOTOVOLTAIC POWEI WITH THE FOLLOWING CODES:	3	ROOF TY	
 2020 NATIONAL ELECTRICAL CODE 2018 NORTH CAROLINA RESIDENTIAL CODE 	4	RACKIN	
 2018 NORTH CAROLINA BUILDING CODE ALL OTHER ORDINANCE ADOPTED BY THE LOCAL GOVERNING 	5	MOUNTING	
<u>SITE NOTES / OSHA REGULATION</u>		6	DC SIZI
		7	AC SIZI

- 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. 3. ROOFTOP MOUNTED PHOTOVOLTAIC PANELS AND MODULES SHALL BE TESTED, LISTED AN
- 3. ROOFTOP MOUNTED PHOTOVOLTAIC PANELS AND MODULES SHALL BE TESTED, LISTED AND IDENTIFIED BY RECOGNIZED ELECTRICAL TESTING LABORATORY.
- 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, THE PHOTOVOLTAIC SOURCE AND 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.

SOLAR CONTRACTOR

- 1. MODULE CERTIFICATIONS INCLUDE UL1703, IEC61646, IEC61370.
- 2. IF APPLICABLE, MODULE GROUNDING LUGS MUST BE INSTALLED AT THE MARKED GROUNDING LUG HOLES PER THE MANUFACTURERS INSTALLATION REQUIREMENTS.
- 3. 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.
- 4. 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).
- 5. 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: 10 PSF WIND EXPOSURE FACTOR: B UTILITY COMPANY: SOUTH RIVER EMC

PERMIT ISSUER (AHJ): HARNETT COUNTY SCOPE OF WORK INSTALLATION OF UTILITY INTERACTIVE PHOTOVOLTAIC SOLAR SYSTEM.

VICIN



SR.#

1

2

3

4

5

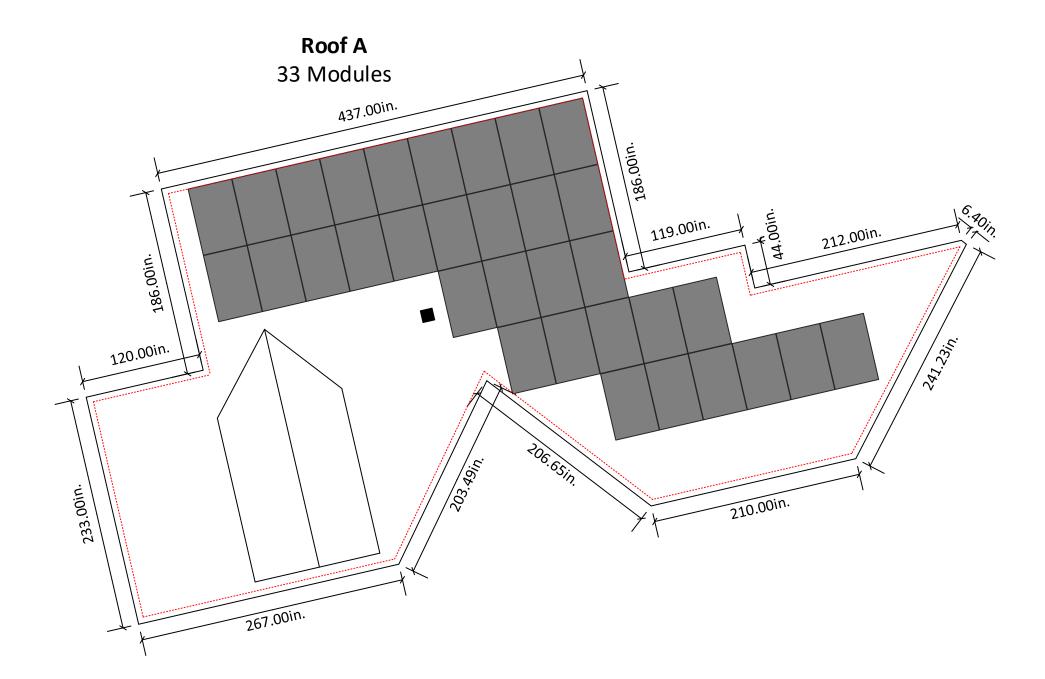
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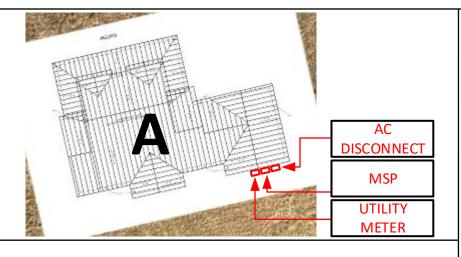
8

PI	ROJECT INFORMATION			
V MODULES	33 x SOLARIA POWERX-390R			
INVERTER	02 x Tesla Inverter 7.6 kW	BASOLAR Advancing energy independence		
ROOF TYPE	ASPHALT SHINGLES			
RACKING	PSR-B84 RAILS (BLACK)			
UNTING TYPE	COMP MOUNT FLASHING (BLACK)			
DC SIZE	12.87 KW	E: info@8msolar.com		
AC SIZE	15.2 KVA	Customer Information:		
PI	ROJECT INFORMATION	Kathryn Elizabeth Lassek		
PV1	DRAWING INDEX	3185 Raynor McLamb Road Linden NC 28356		
PV2	SITE LAYOUT	Customer Signature:		
PV3	STRING MAPPING			
PV4	ELECTRICAL ONE LINE DIAGRAM			
PV5	DETAILED ELECTRICAL WIRING SCHEMATIC	Sheet Name:		
PV6	PV LABELS	Drawing Index		
PV7	BILL OF MATERIALS			
PV8	ATTACHMENT DETAILS	JOB NUMBER:		
		23-201-RL		
	AND THE	Date: Revision:		
3185 Raynor McLamb Rd, Linden, NC 28356,		05/01/2023 A		
United States		Sheet Size: Sheet Number:		
2		ANSI C 17" X 22" PV1		
ΝΤΥ ΜΑΡ	TOP VIEW OF THE BUILDING	NABCEP CERTIFIED PV Installation Professional Ali Buttar PVIP #031310-32		

	ROOF DES	CRIPTION		MODULE DIMEN	SIONS		
ROOF	PITCH	AZIMUTH	NO. OF MODULES	44.7 in.	<u></u>	Vent	
А	34°	167°	33				
				67.8 in		 No vents will be covered by the installation. 	PV modules during



6in setback from sides of the roof



SYSTEM DETAILS

NUMBER OF PANELS : 33 PANELS MODEL : SOLARIA POWERX-390R DC SIZE : 12.87 kW AC SIZE : 15.2 kVA



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

Customer Information:

Kathryn Elizabeth Lassek

3185 Raynor McLamb Road Linden NC 28356

Customer Signature:

Sheet Name:

Site Layout

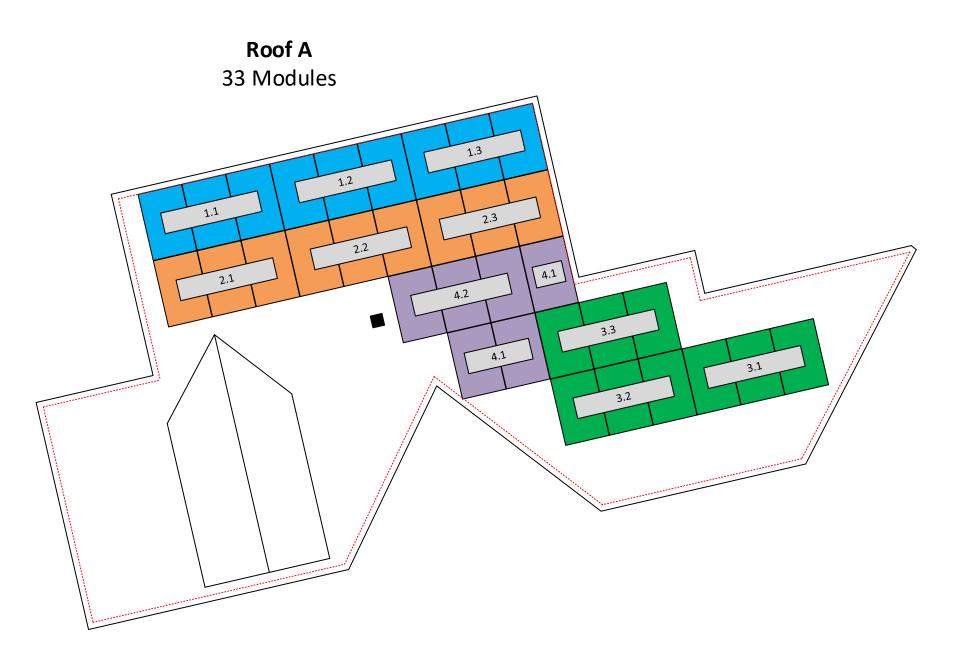
JOB NUMBER:

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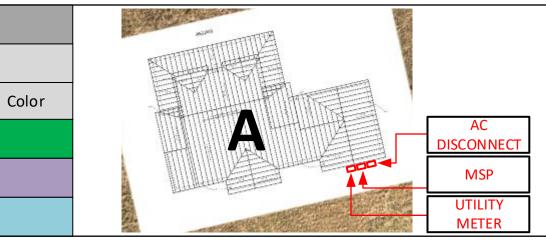
<u>SITE LAYOUT</u> SCALE: 1/8" - 1' 23-201-RL

Date:	Revision:
05/01/2023	A
Sheet Size:	Sheet Number:
ANSI C 17" X 22"	PV2
NABCEP CERTIFIED PV Installation Professional Ali Buttar PVIP #031310-32	

	ROOF DES	CRIPTION		MODU	LE DIMENSIONS			STRING	LAYOUT		
ROOF	PITCH	AZIMUTH	NO. OF MODULES		44.7 in.	TI	ESLA 7.6KW -	A	T	ESLA 7.6KW -	В
A	34°	167°	33			Strings #	No. of Modules	Color	Strings #	No. of Modules	С
				67.8 in.		String 1	09		String 3	09	
				9		String 2	09		String 4	06	
Tesla MCI	(Mid Circuit In	terrupter)									



6in setback from sides of the roof



SYSTEM DETAILS

NUMBER OF PANELS : 33 PANELS MODEL : SOLARIA POWERX-390R DC SIZE : 12.87 kW AC SIZE : 15.2 kVA



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

Customer Information:

Kathryn Elizabeth Lassek

3185 Raynor McLamb Road Linden NC 28356

Customer Signature:

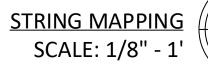
Sheet Name:

String Mapping

JOB NUMBER:

23-201-RL

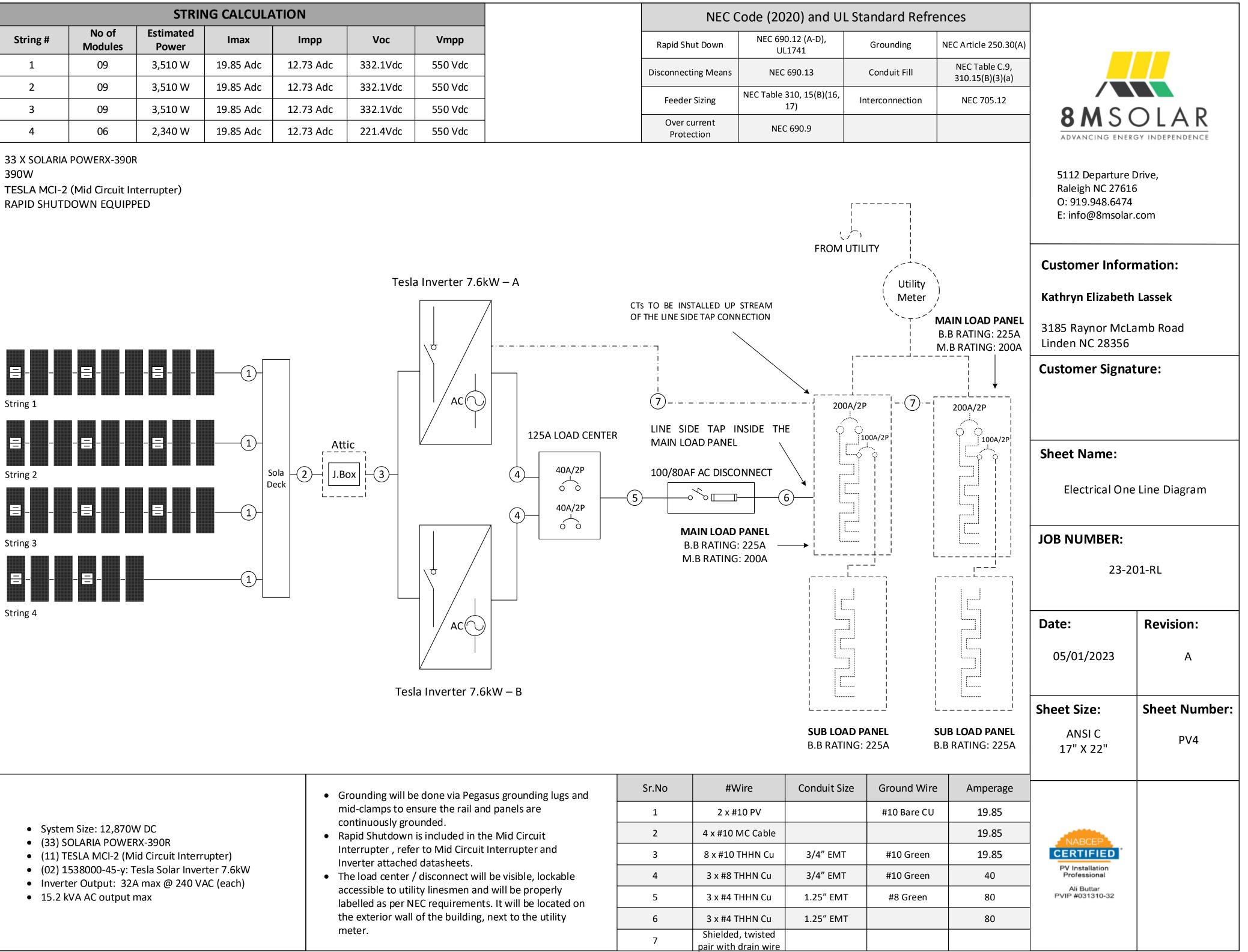
Date:	Revision:
05/01/2023	A
Sheet Size:	Sheet Number:
ANSI C 17" X 22"	PV3
NABCEP CERTIFIED PV Installation Professional Ali Buttar PVIP #031310-32	

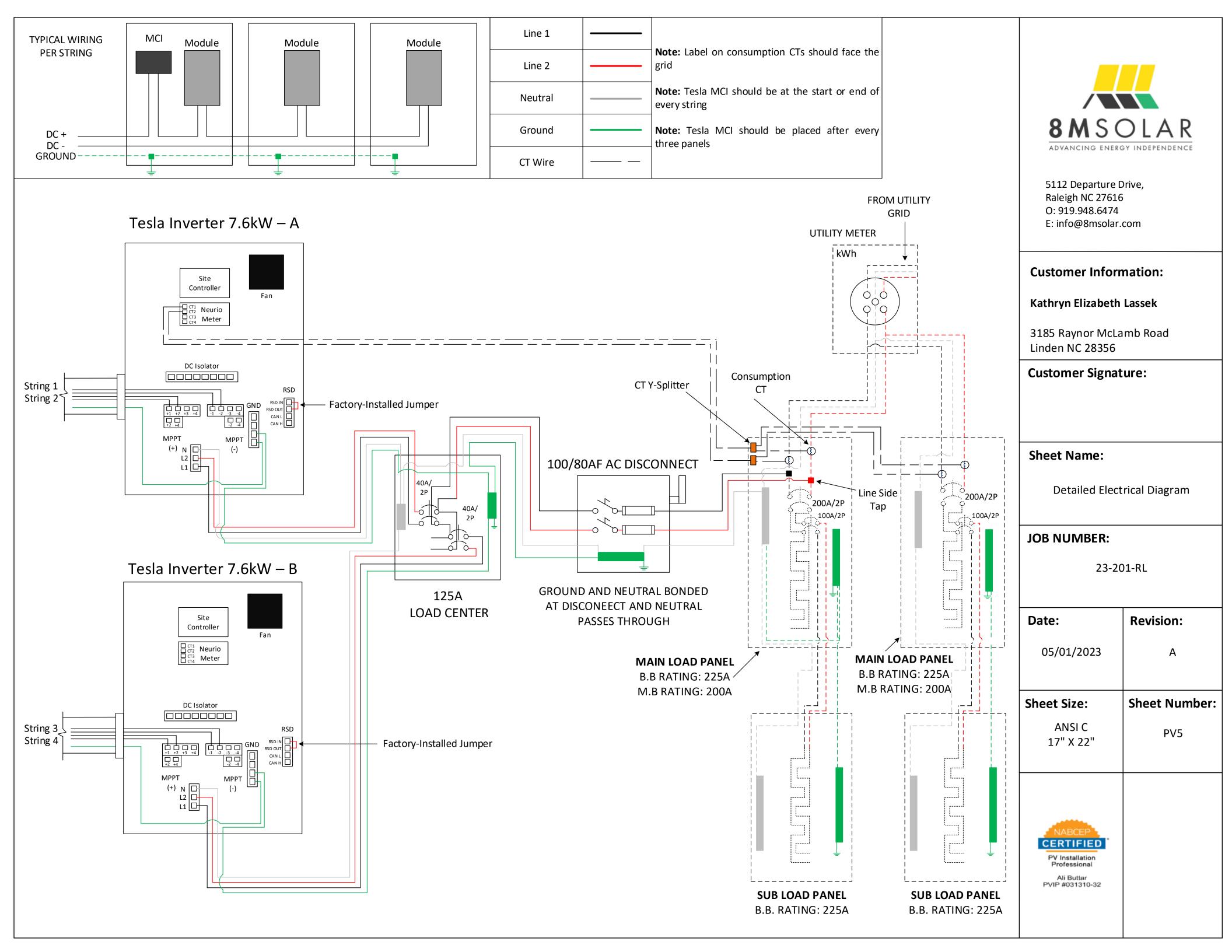


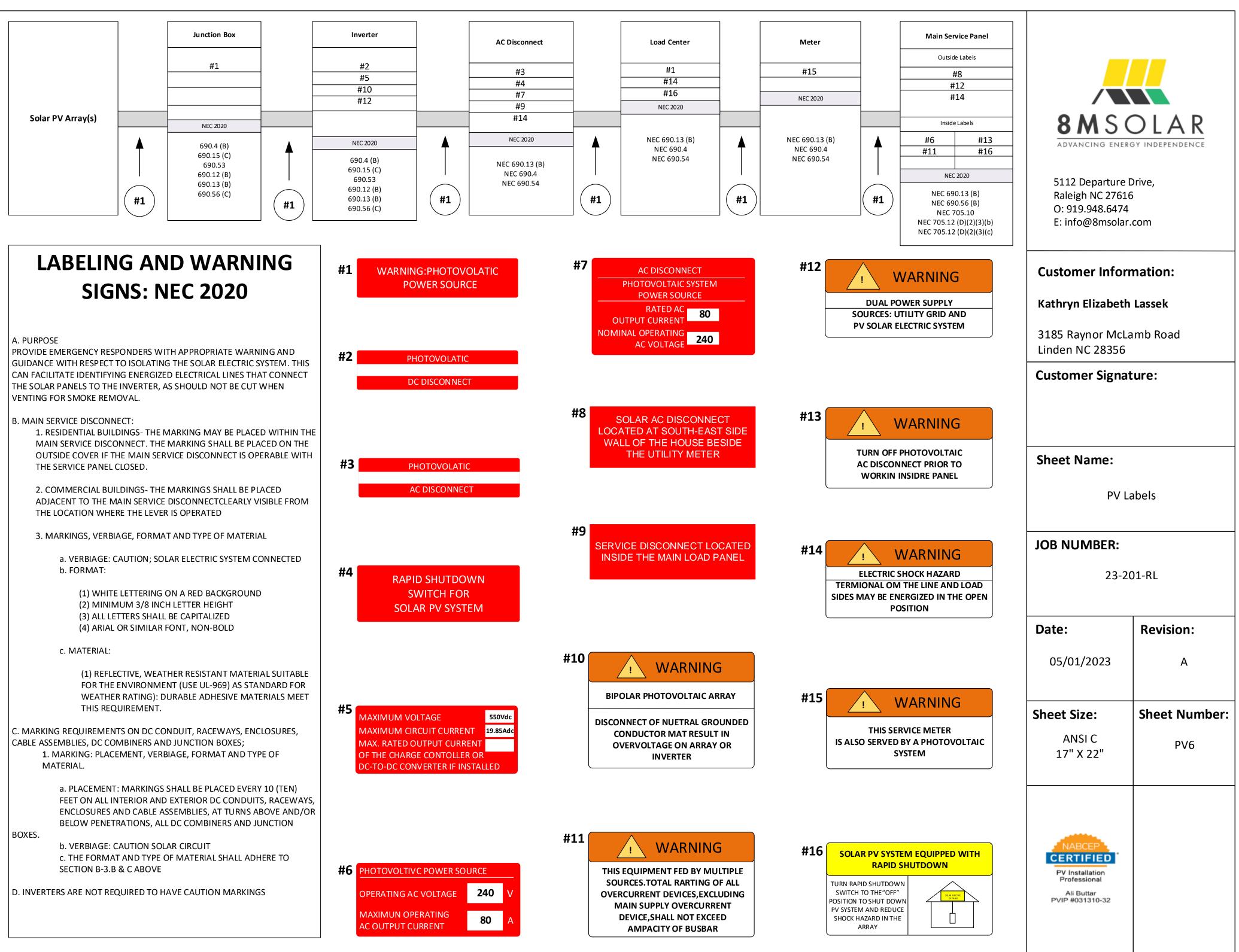
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	STRING CALCULATION									
String #	No of Modules	Estimated Power	Imax	Impp	Voc	Vmpp				
1	09	3,510 W	19.85 Adc	12.73 Adc	332.1Vdc	550 Vdc				
2	09	3,510 W	19.85 Adc	12.73 Adc	332.1Vdc	550 Vdc				
3	09	3,510 W	19.85 Adc	12.73 Adc	332.1Vdc	550 Vdc				
4	06	2,340 W	19.85 Adc	12.73 Adc	221.4Vdc	550 Vdc				

390W



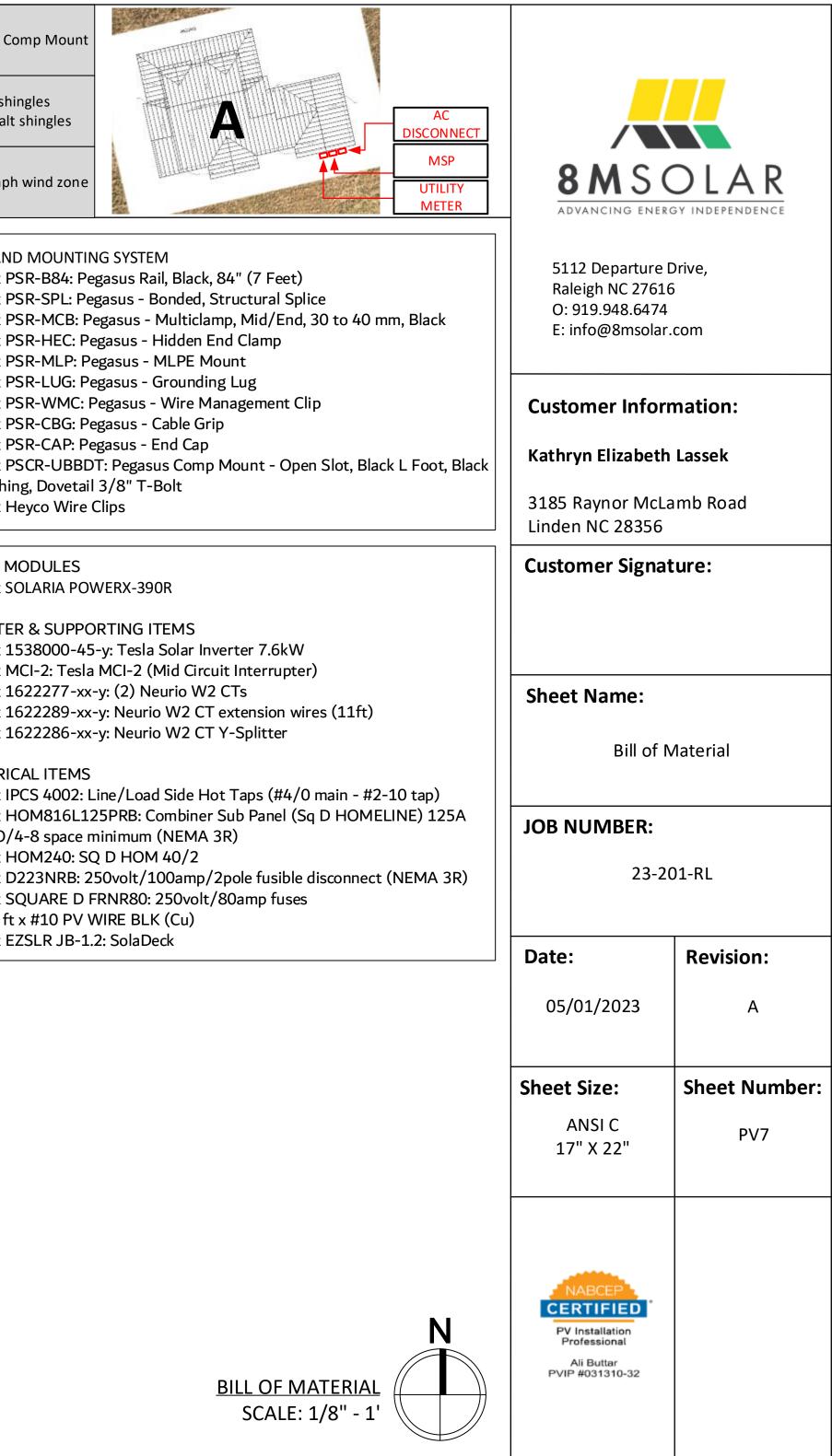


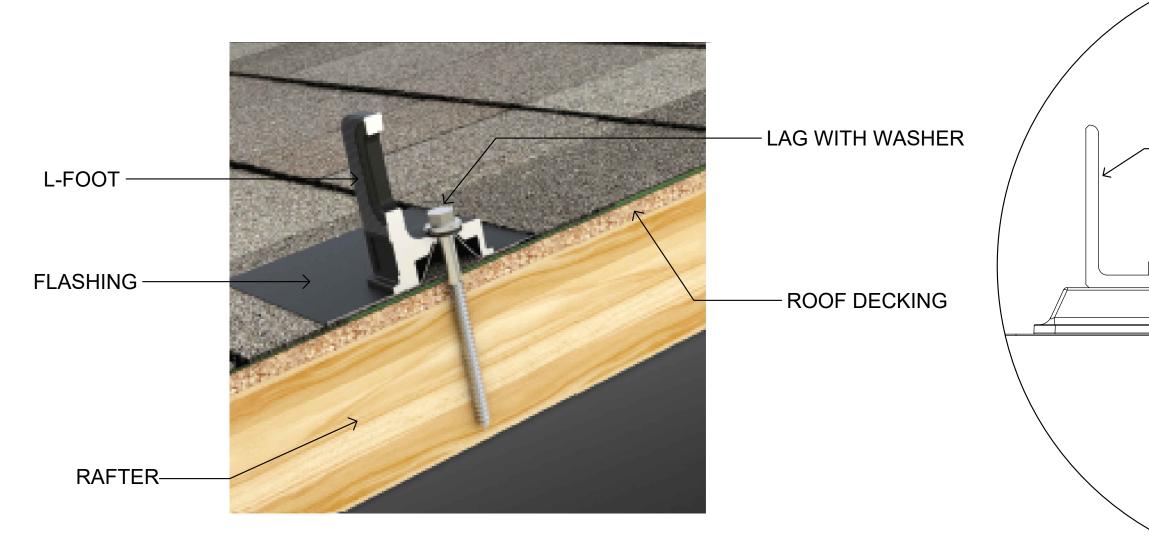


			47	
	#1	WARNING:PHOTOVOLATIC	#7	AC DISCONNECT
		POWER SOURCE		PHOTOVOLTAIC SYSTEM POWER SOURCE
				RATED AC 80
				OUTPUT CURRENT
				NOMINAL OPERATING AC VOLTAGE 240
IS	#2	PHOTOVOLATIC		
T		DC DISCONNECT		
		De Disconneer		
			#8	
ГНЕ				SOLAR AC DISCONNE LOCATED AT SOUTH-EAS
IE				WALL OF THE HOUSE B
TH	#3	PHOTOVOLATIC		THE UTILITY METE
м		AC DISCONNECT		
			#9	
				SERVICE DISCONNECT LO
	#4			INSIDE THE MAIN LOAD I
		RAPID SHUIDOWN		
		SWITCH FOR SOLAR PV SYSTEM		
		JOLAN PV STSTLIVI		
			#10	
E				
₹ ET				BIPOLAR PHOTOVOLTAIC A
. 1	#5			
		MAXIMUM VOLTAGE 550Vdc MAXIMUM CIRCUIT CURRENT 19.85Adc		DISCONNECT OF NUETRAL GRO
		MAX. RATED OUTPUT CURRENT		CONDUCTOR MAT RESUL OVERVOLTAGE ON ARRAY
		OF THE CHARGE CONTOLLER OR DC-TO-DC CONVERTER IF INSTALLED		INVERTER
		DC-TO-DC CONVERTER IF INSTALLED		
YS,				
OR				
			ШАА	
			#11	
	#6	PHOTOVOLTIVC POWER SOURCE		THIS EQUIPMENT FED BY MU
		OPERATING AC VOLTAGE 240 V		SOURCES.TOTAL RARTING (OVERCURRENT DEVICES,EXC
				MAIN SUPPLY OVERCURR

	ROOF DES	CRIPTION		MODULE DIMENSIONS		
ROOF	РІТСН	AZIMUTH	NO. OF MODULES	↓ 44.7 in. ↓	Rails and Splices : PSR-B84 (BLACK)	Roof Attachment : Pegasus
A	34°	167°	33	67.8 in.	Rafter Spacing : 24 in	There is one layer of s Roofing material is aspha
					Attachment Span: 4ft	The roof is located in 135m
PV LABE	.S					RAILS A
Sr No Code	Qty	_				• 40 x
01 02-314		_				• 30 x • 56 x
02 03-301	-					• 56 x • 20 x
03 03-302						• 11 ×
04 02-316						• 09 x
05 03-308						 50 x 06 x
06 03-390	01					• 20 ×
07 03-306	01					• 66 >
08 8M-00	. 01					Flas
09 8M-00	01					• 66 >
10 05-103	02					
11 05-108	01	_				SOLAR
12 05-211		_				• 33 >
13 05-372	_	_				INVER
14 05-215		_	Roof	۸		• 02 :
15 07-359 16 07-111		_	33 Mod			• 11 x • 02 x
						 01 :: 02 :: 01 :: 01 ::

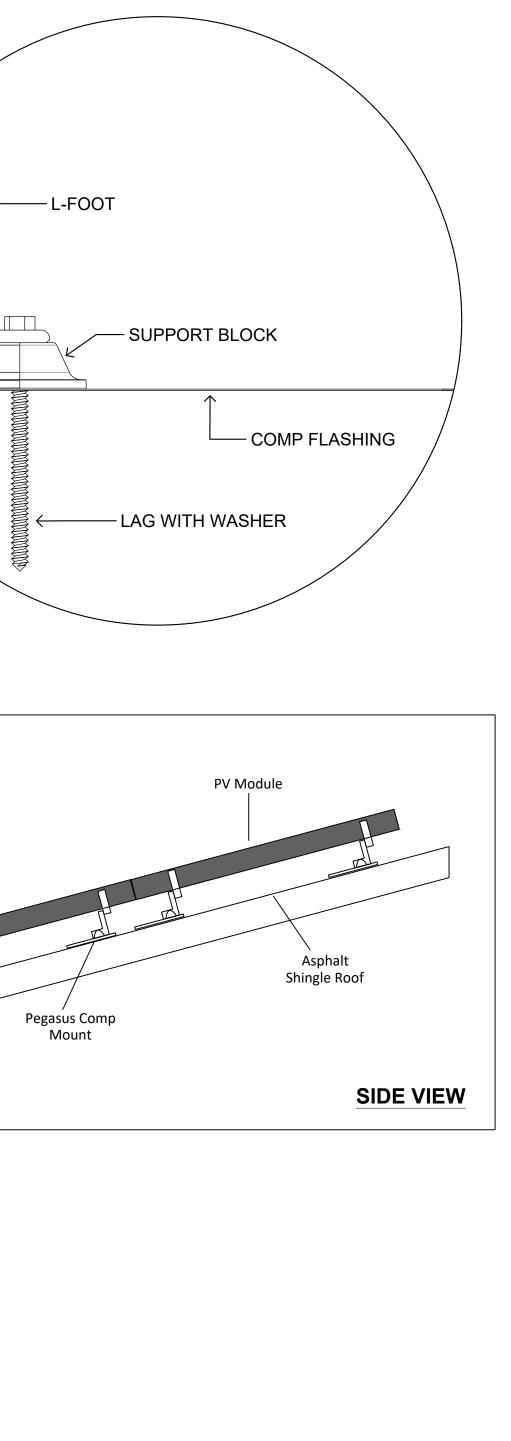
6in setback from sides of the roof





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

	PV Dead Load
Roof A	PV System Dead Load (Panel + Racking weight) / PV System Area (33 panels x 48.7 lbs./panel + 15 ft. of racking x 1.17 lb.ft) / (33 panels x 5.65' x 3.72') = 2.73 psf





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Customer Information:

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Customer Signature:

Sheet Name:

Attachment Details

JOB NUMBER:

23-201-RL

Date:	Revision:
05/01/2023	A
Sheet Size:	Sheet Number:
ANSI C 17" X 22"	PV8
NABCEP CERTIFIED PV Installation Professional Ali Buttar PVIP #031310-32	

SOLARIA®

Solaria PowerX | DC Panel

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.

SOLARIA

Performance at STC (1000W/	′m², 25° C, A	M 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/n	ո², 20°C Amb	o, 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	

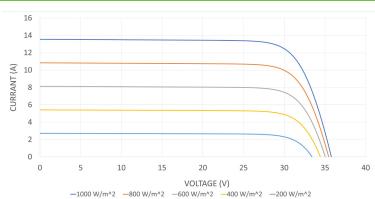
Design Parameters			
Operating temperature	[°C]	-40 to +85	
Max System Voltage	[V]	1000	
Max Fuse Rating	[A]	25	
Bypass Diodes	[#]	3	

[% / °C]

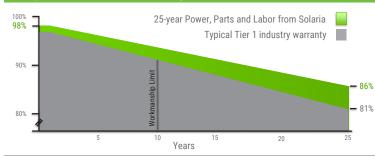
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IV Curves vs. Irradiance (400W Panel)

Temp. Coeff. of Isc



Comprehensive 25-Year Warranty



Solaria PowerX-400R

Mechanical Characteris	tics
Cell Type	Monocrystalline Silicon
Dimensions (L x W x H)	67.8" x 44.7" x 1.4"
M/ 1 1 .	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 fo	or details
Certifications / Warranty	/
Certifications	UL 61730 / IEC 61215 / IEC 61730
Fire Type (UL 1703)	2
Power, Parts & Labor	25 vears*

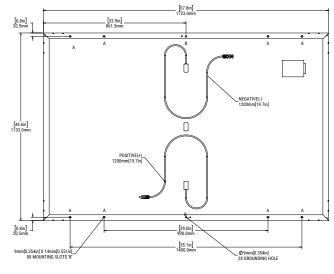
25 years*

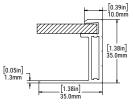
Packaging

* Warranty details at www.solaria.com

Warranty

Vertical / Palletized
31
69.3" x 44.3" x 49.3"
1760mm x 1125mm x 1253mm
745 kg / 1642 lbs
26
806





The Solaria Corporation 45700 Northport Loop East, Fremont, CA 94538 P: (510) 270-2507 Product specifications are subject to change without notice.

www.solaria.com

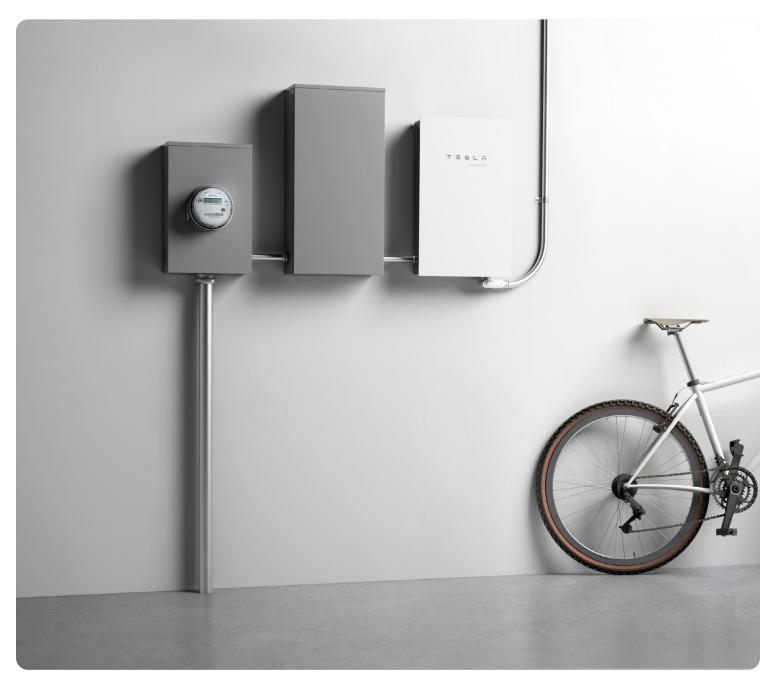
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Tesla Solar Inverter with Solar Shutdown Device

Tesla Solar Inverter completes the Tesla home solar system, converting DC power from solar to AC power for home consumption. Tesla's renowned expertise in power electronics has been combined with robust safety features and a simple installation process to produce an outstanding solar inverter that is compatible with both Solar Roof and traditional solar panels. Once installed, homeowners use the Tesla mobile app to manage their solar system and monitor energy consumption, resulting in a truly unique ecosystem experience.

KEY FEATURES

- Built on Powerwall technology for exceptional efficiency and reliability
- Wi-Fi, Ethernet, and cellular connectivity with easy over-the-air updates
- Designed to integrate with Tesla Powerwall and Tesla App
- 0.5% revenue-grade metering for Solar Renewable Energy Credit (SREC) programs included
- 3.8 kW and 7.6 kW models available



Tesla Solar Inverter Technical Specifications

Electrical Specifications:	Model Number	1534000-xx-y	1538000-xx-y		
Output (AC)	Output (AC)	3.8 kW	7.6 kW		
	Nominal Power	3,800 W	7,600 W		
	Maximum Apparent Power	3,328 VA at 208 V 3,840 VA at 240 V	6,656 VA at 208 V 7,680 VA at 240 V		
	Maximum Continuous Current	16 A	32 A		
	Breaker (Overcurrent Protection)	20 A	40 A		
	Nominal Power Factor	1 - 0.9 (lead	ing / lagging		
	THD (at Nominal Power)	<	5%		
Electrical Specifications:	МРРТ	2	4		
Input (DC)	Input Connectors per MPPT	1-2	1-2-1-2		
	Maximum Input Voltage	600	VDC		
	DC Input Voltage Range	60 - 550 VDC			
	DC MPPT Voltage Range 60 - 480 VDC ¹				
	Maximum Current per MPPT (I _{MP}) 13 A ²				
	Maximum Short Circuit Current per 17 A ² MPPT (I _{sc})				
	¹ Maximum current. ² Where the DC input current exceeds an MPP intake additional DC current up to 26 A I _{MP} /		d to allow a single MPPT to		
Performance Specifications	Peak Efficiency	98% at 208 V 98.1% at 240 V	98.4% at 208 V 98.6% at 240 V		
	CEC Efficiency	97.5% at 208 V 97.5% at 240 V	97.5% at 208 V 98.0% at 240 V		
	Allowable DC/AC Ratio	1	.7		
	Customer Interface	Tesla Mobile App			
	Internet Connectivity	Wi-Fi (2.4 GHz, 802.11 b/g/n), Ethernet³, Cellular (LTE/4G)⁴			
	Factory-Installed Revenue Grade Meter	rade Meter Revenue Accurate (+/- 0.5%) ³			
	AC Remote Metering Support	Wi-Fi (2.4 GHz, 802.11 b/g/n), RS-485			
	Protections	Integrated arc fault circuit interrupter (AFCI), Rapid Shutdown			
	Supported Grid Types	60 Hz, 240 V Split Phase 60 Hz, 208 V Wye			

³ Applicable to Tesla Solar Inverter with Site Controller (1538000-45-y) only.

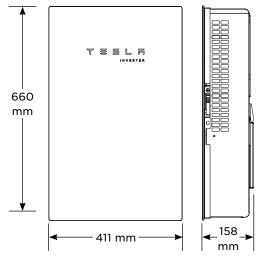
⁴ Cellular connectivity subject to network operator service coverage and signal strength.

Tesla Solar Inverter Technical Specifications

Mechanical Specifications

Dimensions

660 mm x 411 mm x 158 mm (26 in x 16 in x 6 in)



Weight52 lb 5Mounting OptionsWall mount (bracket)5 Door and bracket can be removed for a mounting weight of 37 lb.

Environmental Specifications

Operating Temperature	-30°C to 45°C (-22°F to 113°F)6
Operating Humidity (RH)	Up to 100%, condensing
Storage Temperature	-30°C to 70°C (-22°F to 158°F)
Maximum Elevation	3000 m (9843 ft)
Environment	Indoor and outdoor rated
Enclosure Rating	Type 3R
Ingress Rating	IP55 (Wiring compartment)
Pollution Rating	PD2 for power electronics and terminal wiring compartment, PD3 for all other components
Operating Noise @ 1 m	< 40 db(A) nominal, < 50 db(A) maximum

⁶ For the 7.6 kW Tesla Solar Inverter, performance may be de-rated to 6.2 kW at 240 V or 5.37 kW at 208 V when operating at temperatures greater than 45°C.

Compliance Information

Grid Certifications	UL 1741, UL 1741 SA, UL 1741 SB, IEEE 1547-2018,
	IEEE 1547.1
Safety Certifications	UL 1741 PVRSS, UL 1699B, UL 1998 (US), UL 3741
Emissions	EN 61000-6-3 (Residential), FCC 47CFR15.109 (a)

Solar Shutdown Device 1 Technical Specifications

The Solar Shutdown Device is a Mid-Circuit Interrupter (MCI) and is part of the PV system rapid shutdown (RSD) function in accordance with Article 690 of the applicable NEC. When paired with Tesla Solar Inverter, solar array shutdown is initiated by any loss of AC power.

Electrical	Nominal Input DC Current Rating $(I_{_{MP}})$		12 A	
Specifications	Maximum Input Short Circuit Current (I _{sc})		19 A	
	Maximum System Voltag	je (PVHCS)	600 V DC	
RSD Module	Maximum Number of De	vices per String	5	
Performance	Control		Power Line Excitation	
	Passive State		Normally Open	
	Maximum Power Consun	nption	7 W	
	Warranty		25 years	
Environmental	Ambient Temperature		-40°C to 50°C (-40°F to 122°F)	
Specifications	Storage Temperature		-30°C to 70°C (-22°F to 158°F)	
	Enclosure Rating		NEMA 4X / IP65	
Compliance Information	Certifications		UL 1741 PVRSE, UL 3741, PVRSA (Photovoltaic Rapid Shutdown Array)	
	RSD Initiation Method		PV System AC Breaker or Switch	
	Compatible Equipment		See Compatibility Table below	
Mechanical	Model Number	MCI-1		
Specifications	Electrical Connections	MC4 Connector	250 mm	
	Housing	Plastic	M4 Screw	
	Dimensions	125 mm x 150 mm x 22 mm (5 in x 6 in x 1 in)	650 mm 150 mm M8 Bolt	
	Weight	350 g (0.77 lb)	Nail / Wood Screw	
	Mounting Options	ZEP Home Run Clip M4 Screw (#10) M8 Bolt (5/16″) Nail / Wood screw		
	d Control (and D) (D)		22 mm ←125 mm→	

UL 3741 PV Hazard Control (and PVRSA) Compatibility

Tesla Solar Roof and Tesla/Zep ZS Arrays using the following modules are certified to UL 3741 and UL 1741 PVRSA when installed with Tesla Solar Inverter and Solar Shutdown Devices. See <u>Tesla Solar Inverter Rapid Shutdown: Module Selection Based on PV</u> <u>Hazard Control System Listing</u> for guidance on installing Tesla Solar Inverter and Solar Shutdown Devices with other modules.

Model	Required Solar Shutdown Devices
Solar Roof V3	1 Solar Shutdown Device per 10 modules
Tesla TxxxS (where xxx = 405 to 450 W, increments of 5)	1 Solar Shutdown Device per 3 modules ⁷
Tesla TxxxH (where xxx = 395 to 415 W, increments of 5)	1 Solar Shutdown Device per 3 modules
Q.PEAK DUO BLK-G5 or Q.PEAK DUO BLK-G6+	1 Solar Shutdown Device per 3 modules
	Solar Roof V3 Tesla TxxxS (where xxx = 405 to 450 W, increments of 5) Tesla TxxxH (where xxx = 395 to 415 W, increments of 5)

⁷ Exception: Tesla solar modules installed in locations where the max Voc for three modules at low design temperatures exceeds 165 V shall be limited to two modules between Solar Shutdown Devices.

Tesla Solar Inverter and Solar Shutdown Device Datasheet



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.

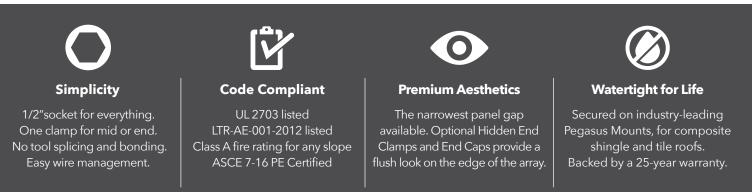
Lifetime Wire Management

- 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



Patents pending. All rights reserved. ©2021 Pegasus Solar Inc. 500 for efference 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.



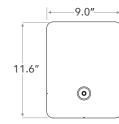


3

L-Foot.









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

Product data sheet

Specifications

SQUARE D



Safety switch, heavy duty, fusible, 100A, 3 wire, 3 poles, 100hp, 600VAC/DC, Type 1

H363

Product availability : Stock - Normally stocked in distribution facility

Price* : 1,188.00 USD

Main	
Product	Single Throw Safety Switch
Duty Rating	Heavy duty
Device Application	Heavy application
Disconnect Type	Fusible disconnect
Factory Installed Neutral	None
Phase	3 phase
Number of Poles	3
Current Rating	100 A
Voltage Rating	600 V AC/DC
Enclosure Rating	NEMA 1 steel
Motor power hp	25 hp at 480 V AC 50-60 Hz for 3 phase motors 60 hp at 480 V AC 50-60 Hz for 3 phase motors 30 hp at 600 V AC 50-60 Hz for 3 phase motors 100 hp at 600 V AC 50-60 Hz for 3 phase motors 50 hp at 600 V DC
Complementary	
Short Circuit Current Rating	10 kA H or K 200 kA R or J
Short Circuit Current Rating Fuse type	
	200 kA R or J H or K
Fuse type	200 kA R or J H or K R or J
Fuse type Mounting Type	200 kA R or J H or K R or J Surface
Fuse type Mounting Type Electrical Connection	200 kA R or J H or K R or J Surface Lugs
Fuse type Mounting Type Electrical Connection Wiring configuration	200 kA R or J H or K R or J Surface Lugs 3-wire AWG 12AWG 1/0 aluminium
Fuse type Mounting Type Electrical Connection Wiring configuration Wire Size	200 kA R or J H or K R or J Surface Lugs 3-wire AWG 12AWG 1/0 aluminium AWG 14AWG 1/0 copper 50 lbf.in (5.65 N.m) (AWG 1AWG 3/0) 45 lbf.in (5.08 N.m) (AWG 6AWG 4) 40 lbf.in (4.52 N.m) 0.01 in² (8.367 mm²) (AWG 8)
Fuse type Mounting Type Electrical Connection Wiring configuration Wire Size Tightening torque	200 kA R or J H or K R or J Surface Lugs 3-wire AWG 12AWG 1/0 aluminium AWG 14AWG 1/0 copper 50 lbf.in (5.65 N.m) (AWG 1AWG 3/0) 45 lbf.in (5.08 N.m) (AWG 6AWG 4) 40 lbf.in (4.52 N.m) 0.01 in² (8.367 mm²) (AWG 8) 35 lbf.in (3.95 N.m) 0.000.01 in² (2.065.261 mm²) (AWG 14AWG 10)
Fuse type Mounting Type Electrical Connection Wiring configuration Wire Size Tightening torque Depth	200 kA R or J H or K R or J Surface Lugs 3-wire AWG 12AWG 1/0 aluminium AWG 14AWG 1/0 copper 50 lbf.in (5.65 N.m) (AWG 1AWG 3/0) 45 lbf.in (5.08 N.m) (AWG 6AWG 4) 40 lbf.in (4.52 N.m) 0.01 in² (8.367 mm²) (AWG 8) 35 lbf.in (3.95 N.m) 0.000.01 in² (2.065.261 mm²) (AWG 14AWG 10) 6.38 in (162.05 mm)

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



Environment

Certifications

UL listed file E2875

Ordering and shipping details

Category	00008-H&HU SW,2&3P,N1,30-200A
Discount Schedule	DE1
GTIN	785901482253
Returnability	Yes
Country of origin	US

Packing Units

J	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.30 in (18.542 cm)
Package 1 Width	10.70 in (27.178 cm)
Package 1 Length	23.30 in (59.182 cm)
Package 1 Weight	17.04 lb(US) (7.729 kg)
Unit Type of Package 2	PAL
Number of Units in Package 2	40
Package 2 Height	41.50 in (105.41 cm)
Package 2 Width	40.00 in (101.6 cm)
Package 2 Length	48.00 in (121.92 cm)
Package 2 Weight	722.00 lb(US) (327.493 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	
REACh free of SVHC	Yes	
EU RoHS Directive	Compliant EU RoHS Declaration	
Mercury free	Yes	
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information.	
RoHS exemption information	Yes	
Environmental Disclosure	Product Environmental Profile	
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.	
PVC free	Yes	

Contractual warranty

Warranty

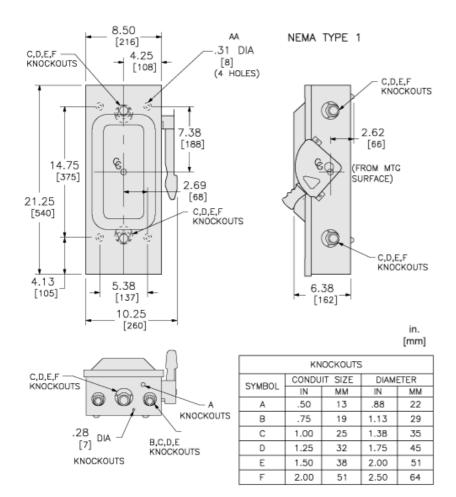
18 months

Product data sheet

H363

Dimensions Drawings

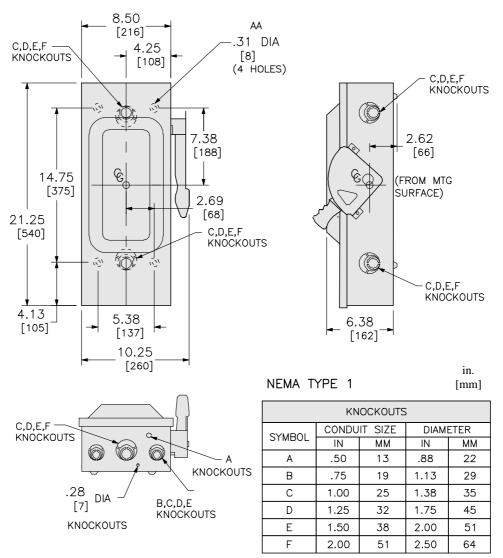
Approximate Dimensions



Product data sheet

Technical Illustration

Dimensions



H363

ALL DIMENSIONS ARE APPROXIMATE. REFER TO TECHNICAL DRAWINGS AND DOCUMENTATION FOR COMPLETE INFORM ATION.

4

Technical Illustration

Wiring Diagram

WIRING DIAGRAM
FUSIBLE
H363 H363RB
TERMINAL LUGS ‡

TERMINAL LUGS ‡			
AMPERES	MAX. WIRE	MIN. WIRE	TYPE
100 -	#1/0 AWG	#12 AWG	AL
	#1/0 AWG	#14 AWG	CU

 \ddagger LUGS SUI TABLE FOR 60°C or 75°C COPPER or \qquad Aluminum conductors.

Recommended replacement(s)

Product data sheet Characteristics

QO112L125PG QO LoadCenter, PoN, main lugs, 125 A, 1 PH, 12 SP, NEMA1, gndbar

Product availability: Stock - Normally stocked in distribution facility



Main	
Product	Load Center
Marketing Trade Name	QO
Provided equipment	Grounding bar

Complementary

Main lugs
125 A
12
65 kA
12
12
1 phase
6
455.17 mm (17.92 in)
361.95 mm (14.25 in)
95.25 mm (3.75 in)

Environment

Enclosure Rating	NEMA 1
Ambient air temperature for operation	23 °F (-5 °C) 104 °F (40 °C)

Ordering and shipping details

Category	10003 - QO PON 1PH LC,12-60 CKT, ML N1	
Discount Schedule	DE3A	
GTIN	00785901588382	
Package weight(Lbs)	0.45 kg (1 lb(US))	
Returnability	Yes	
Country of origin	US	

