

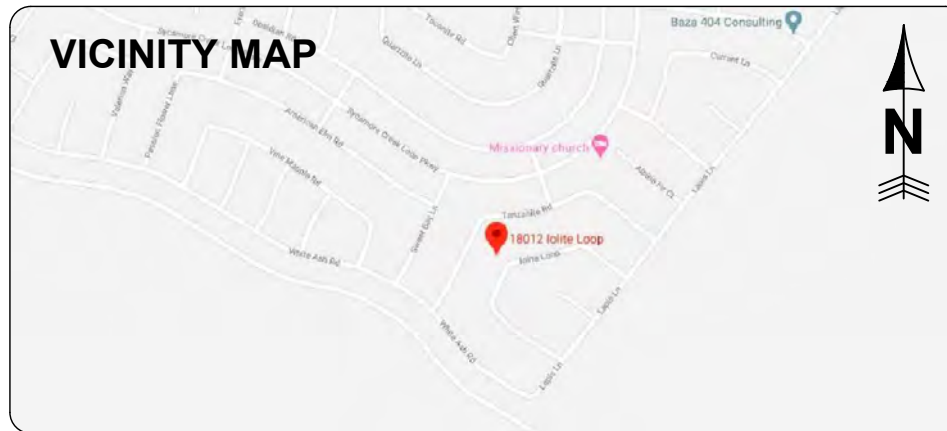
**PROJECT DESCRIPTION**

THIS ROOF-MOUNTED PHOTOVOLTAIC (PV) SYSTEM IS TO BE INSTALLED AT THE SINGLE FAMILY RESIDENTIAL IN **SAN BERNARDINO**, CALIFORNIA.  
 THE ENERGY PRODUCED BY THE PV SYSTEM SHALL BE INTERCONNECTED WITH THE UTILITY GRID THROUGH THE EXISTING ON-SITE ELECTRICAL EQUIPMENT VIA A BACK-FED BREAKER IN THE MAIN SERVICE PANEL.

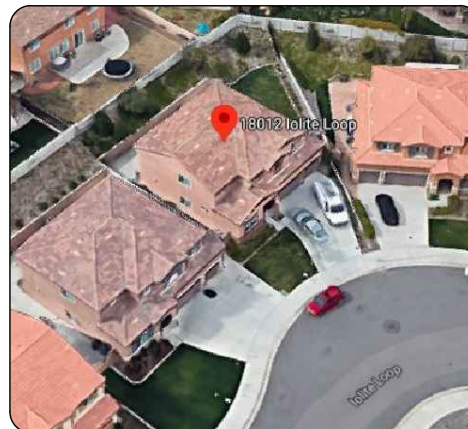
**GENERAL NOTES**

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LATEST CALIFORNIA CODE OF REGULATIONS (CCR), NATIONAL ELECTRICAL CODE EDITION AND ALL APPLICABLE LOCAL CODES AND REGULATIONS. (CONSTRUCTION SHALL COMPLY WITH 2019 CBC, CMC, CPC, CEC, CRC, CFC)
2. ALL PANELS, SWITCHES, ETC. SHALL HAVE SUFFICIENT GUTTER SPACE AND LUGS IN COMPLIANCE TO UL REQUIREMENTS TO ACCOMMODATE CONDUCTORS SHOWN
3. WHERE WIRE SIZES ARE INDICATED ON PLANS FOR INDIVIDUAL CIRCUITS, THE WIRE SIZE INDICATED SHALL APPLY TO THE COMPLETE CIRCUIT, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL EXTEND WIRING FROM ALL JUNCTION BOXES, SWITCHES, ETC. AND MAKE FINAL CONNECTIONS AS REQUIRED TO ALL BUILDING EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS.
5. DRAWINGS AND DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. FOLLOW DRAWING AND LAYOUT WORK AND CHECK DRAWINGS OR OTHER TRADES RELATING TO WORK TO VERIFY SPACE IN WHICH WORK WILL BE INSTALLED. MAINTAIN HEADROOM AND MINIMUM CODE REQUIRED WORKING CLEARANCES AT ALL TIMES.
6. ALL EXTERIOR ELECTRICAL DEVICES AND EQUIPMENT INCLUDING THOSE THAT ARE EXPOSED TO OUTSIDE ENVIRONMENT SHALL BE WEATHERPROOF TYPE NEMA 3R.
7. DISCONNECT SWITCHES SHALL BE MOUNTED ON INDIVIDUAL SUPPORTS, OR OTHERWISE DIRECTLY ON EQUIPMENT, PROVIDED NO MODIFICATION TO EQUIPMENT IS NECESSARY.
8. ALL ELECTRICAL MATERIAL SHALL BE LISTED BY "UL" FOR THE TYPE OF APPLICATION AND "UL" LABEL SHALL APPEAR ON ALL ELECTRICAL EQUIPMENT.
9. WIRING METHOD SHALL BE EMT ABOVE GROUND MOUNTED IN CONCEALED SPACES (UNLESS APPROVED OTHERWISE) AND SCHEDULE- 40 PVC FOR BELOW GROUND INSTALLATION UNLESS NOTED OTHERWISE.
10. AN OSHA APPROVED LADDER PROVIDING ACCESS TO ALL PORTIONS OF THE ARRAY SHALL BE SECURED IN PRIOR TO REQUESTING INSPECTION.
11. SMOKE ALARMS AND CARBON MONOXIDE DETECTORS WILL MEET THE NECESSARY REQUIREMENTS PER CRC R314, R315
12. UTILITY COMPANY WILL BE NOTIFIED PRIOR TO ACTIVATION OF THE SOLAR PV SYSTEM.
13. ALL EXTERIOR CONDUIT PAINTED TO MATCH EXTERIOR SURFACE. (IF APPLICABLE)
14. NO PLUMBING, MECHANICAL OR BLDG VENTS TO BE COVERED OR OFFSET AROUND ARRAYS
15. EXISTING PLUMBING VENTS, SKYLIGHTS, EXHAUST OUTLETS, VENTILATION'S INTAKE AIR OPENINGS SHALL NOT BE COVERED BY THE SOLAR PHOTOVOLTAIC SYSTEM.
16. ALL EQUIPMENT SHALL BE LISTED AND LABELED BY A RECOGNIZED ELECTRICAL TESTING LABORATORY AND INSTALLED PER THE LISTING REQUIREMENTS AND THE MANUFACTURER'S INSTRUCTIONS. [NEC 690.4(D)]
17. ALL OUTDOOR EQUIPMENT SHALL BE NEMA 3R RATED, INCLUDING ALL ROOF MOUNTED TRANSITION BOXES AND SWITCHES.
18. PAINT PV CONDUIT TO MATCH THE DWELLING EXTERIOR.
19. CONTACT THE SERVICING UTILITY BEFORE POWERING ON THE PHOTOVOLTAIC SYSTEM.

**VICINITY MAP**



**AERIAL VIEW**



**SITE VIEW**



**GOVERNING CODES**

ALL MODULES AND RAIL ARE LISTED BY UNDERWRITERS LABORATORIES FOR ELECTRICAL AND FIRE SAFETY (CLASS A FIRE RATING)

NOTE:

- 1) NO DISCHARGE OF ANY POLLUTANTS TO ANY STORM DRAIN SYSTEM.
- 2) UL 1703 FOR MODULES & UL 1741 FOR INVERTERS PER CITY SOLAR REQUIREMENTS.

THIS PROJECT SHALL COMPLY WITH THE :

- 2019 CA BUILDING CODE
- 2019 CA PLUMBING CODE
- 2019 CA RESIDENTIAL CODE
- 2019 CA ENERGY CODE
- 2019 CA MECHANICAL CODE
- 2019 CA FIRE CODE
- 2019 CA ELECTRICAL CODE - 2017 NEC'
- ORDINANCES OF THE CITY OF **SAN BERNARDINO**

**SCOPE OF WORK**

SYSTEM SIZE:  
 9.081 KW-AC  
 10.080 KW-DC

ROOF MOUNT PV SOLAR  
 ROOF TYPE: FLAT TILE  
 2 X 4 @ 24" O.C. RAFTERS

ARRAY/ROOF PITCH: 20°  
 AZIMUTH: 100°, 280°  
 TWO STORIES HOUSE

MODULES :  
 (28) SOLARIA POWERXT, 360R-PD

INVERTER :  
 (1) SOLAREEDGE, STOREDGE SE7600A-USS  
 (1) SOLAREEDGE, SE3000H-US

POWER OPTIMIZERS:  
 (28) SOLAREEDGE, P320

(1) LG BATTERY CHEM RESU 10H

MAIN PANEL/BUS-BAR: (E)200A  
 MAIN BREAKER : (N)175A

PV RAIL:  
 IRONRIDGE XR10  
 PV MOUNT:  
 IRINRIDGE ALL TILE HOOK

**INDEX SHEET**

1. COVER PAGE
2. PLOT PLAN/ROOF PLAN
3. RAFTER SIDE VIEW
4. ELECTRICAL DIAGRAM
5. WARNING LABELS
6. SPECS
7. SPECS
8. SPECS
9. SPECS
10. SPECS
11. SPECS
12. SPECS
13. SPECS
14. SPECS
15. SPECS

**CONTRACTOR**

JG POWER CO.  
 3486 MARSHALL ST  
 RIVERSIDE, CA 92504  
 PHONE: (714)717-5223

STATE LICENSE# : 1039874

LICENSE TYPE : C 10

EXPIRATION DATE : 05/31/2022

STAMP/ SIGNATURE :



**OWNER / ADDRESS**

[REDACTED]  
 SAN BERNARDINO, CA 92407

OCCUPANCY R3 /  
 TYPE 5 STRU.

APN#: [REDACTED]

**SYSTEM SIZE**

9.081 KW-AC  
 10.080 KW-DC

MODULES :  
 (28) SOLARIA POWERXT, 360R-PD

INVERTER(S) :  
 (1) SOLAREEDGE, STOREDGE SE7600A-USS  
 (1) SOLAREEDGE, SE3000H-US

DATE: 06/25/20

REVISION :

**PAGE INFORMATION**

TITLE:  
 COVER PAGE

PV-01

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 3486 MARSHALL ST  
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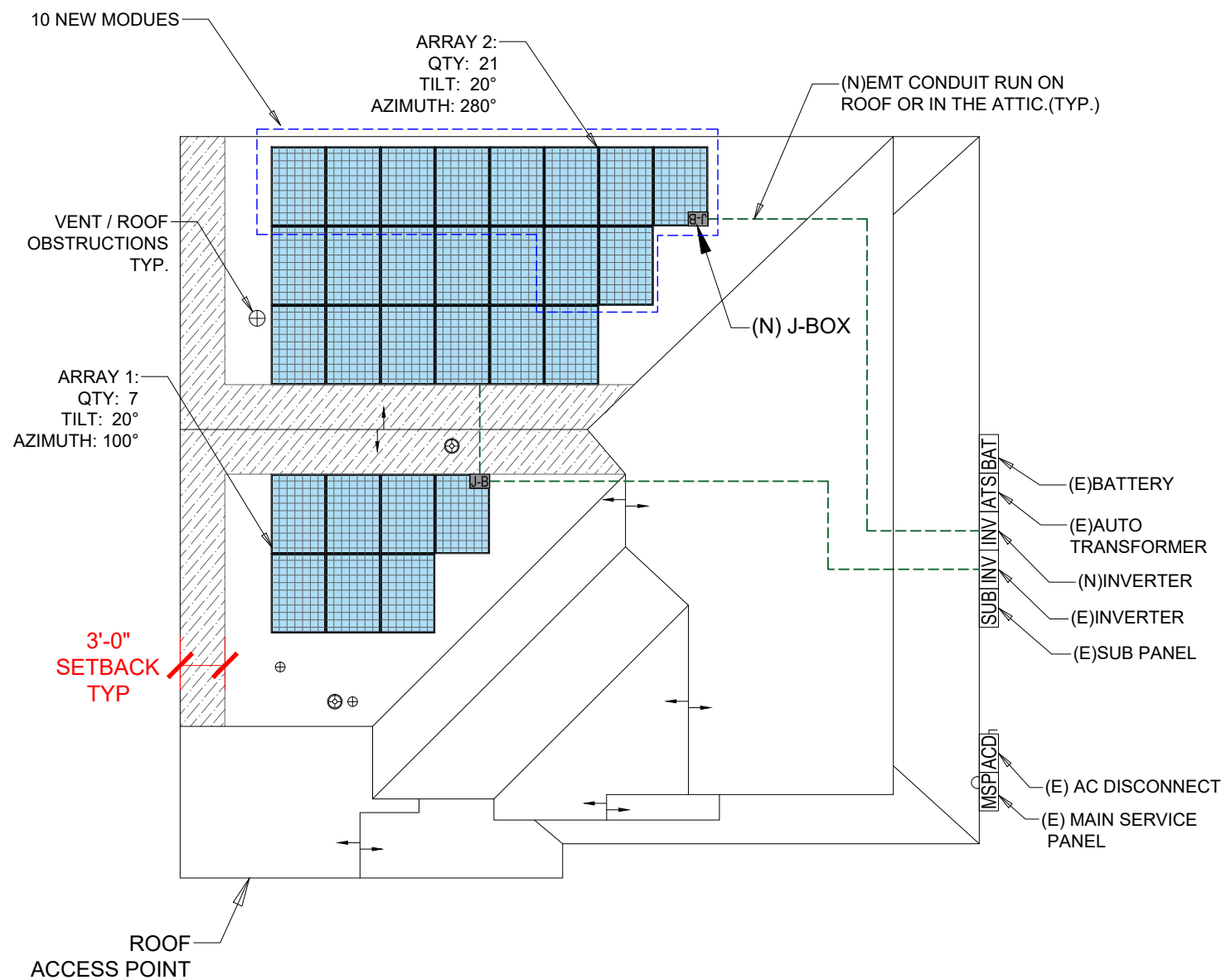
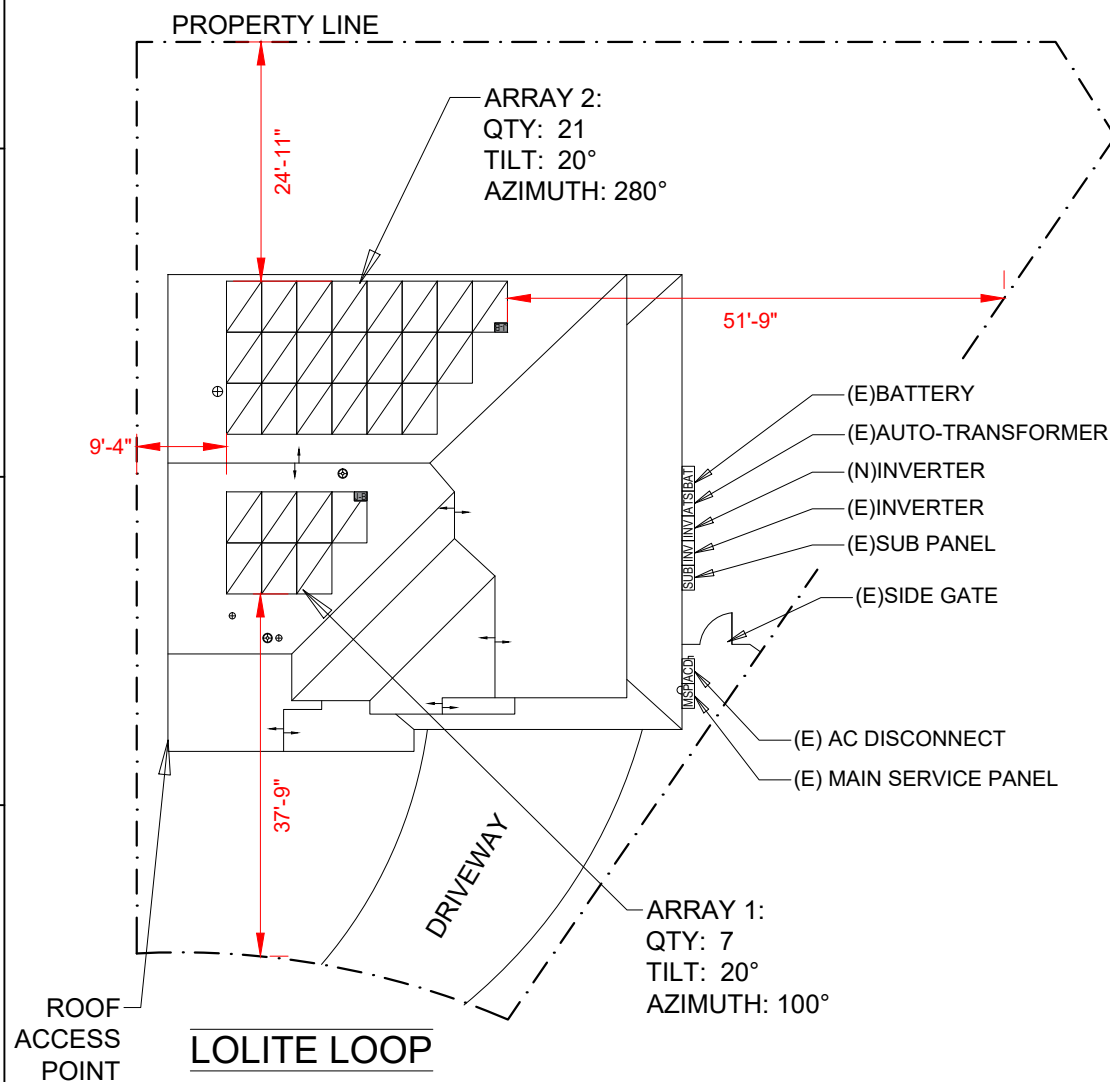
DATE: 06/25/20

REVISION :

**PAGE INFORMATION**

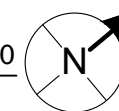
TITLE:  
 PLOT PLAN / ROOF PLAN

PV-02

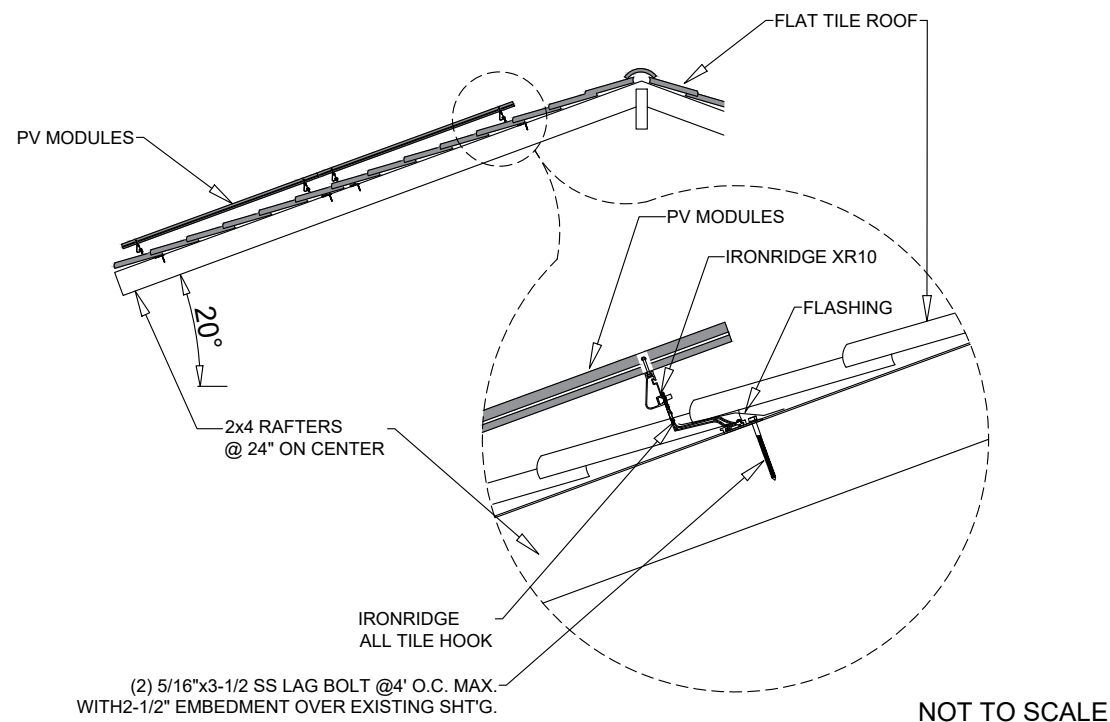


ROOF PLAN :

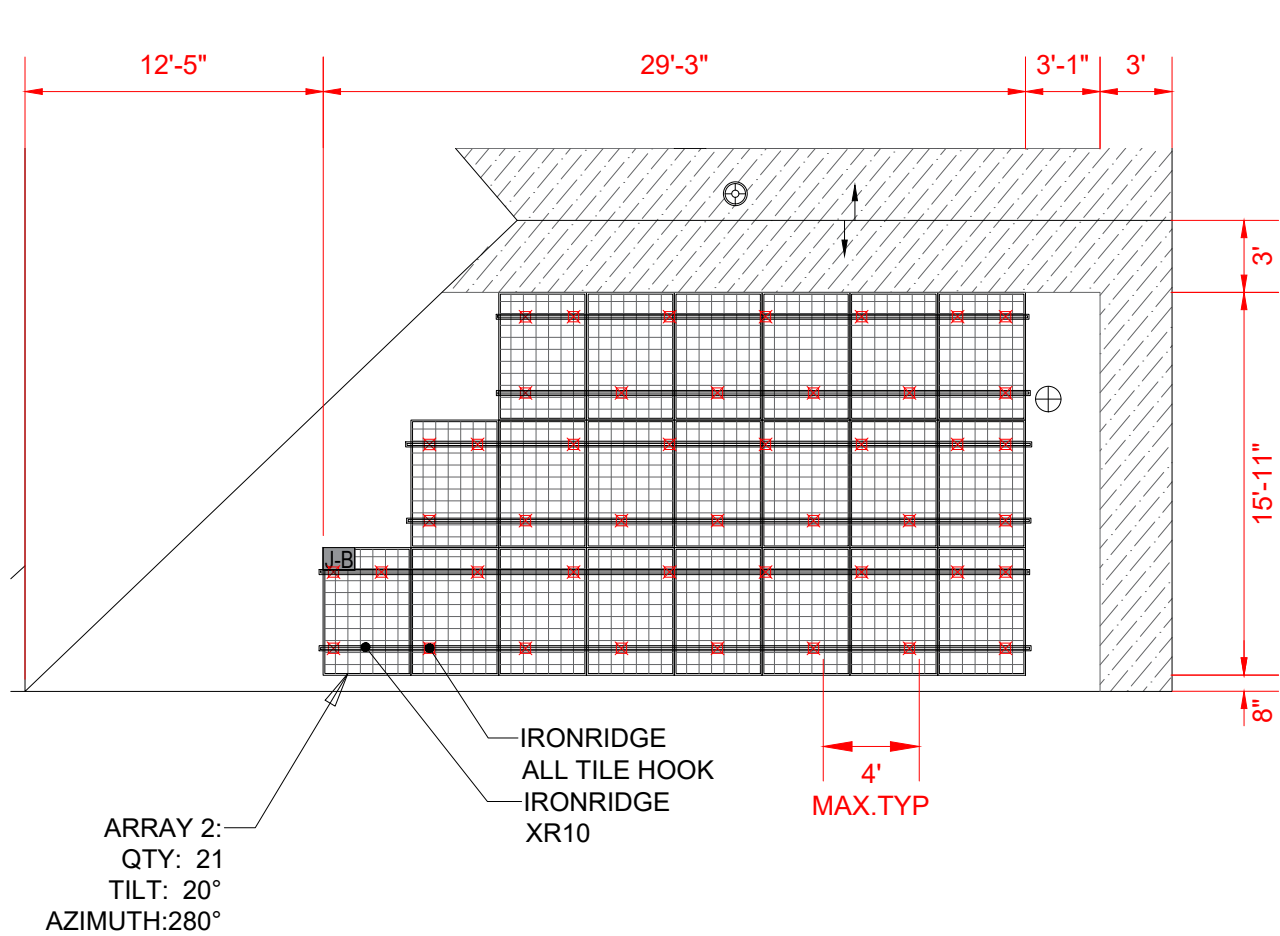
SCALE: 3/32"=1'-0"



SYSTEM WEIGHT / MODULE INFO			
DESCRIPTION	QTY	WEIGHT / UNIT (lbs)	TOTAL WEIGHT (lbs)
MODULE	28	46.0	1288.0
OPTIMIZER/ MICRO-INV.	28	1.4	39.2
RAIL	212ft	0.7	148.4
STANDOFF	51	1	51
TOTAL SYSTEM WEIGHT			1526.6
TOTAL MODULES AREA= 504ft <sup>2</sup>			
LOADING WEIGHT PER ft <sup>2</sup> = 3.0lbs			
LOADING WEIGHT PER STANDOFF = 34.6lbs			



NOT TO SCALE

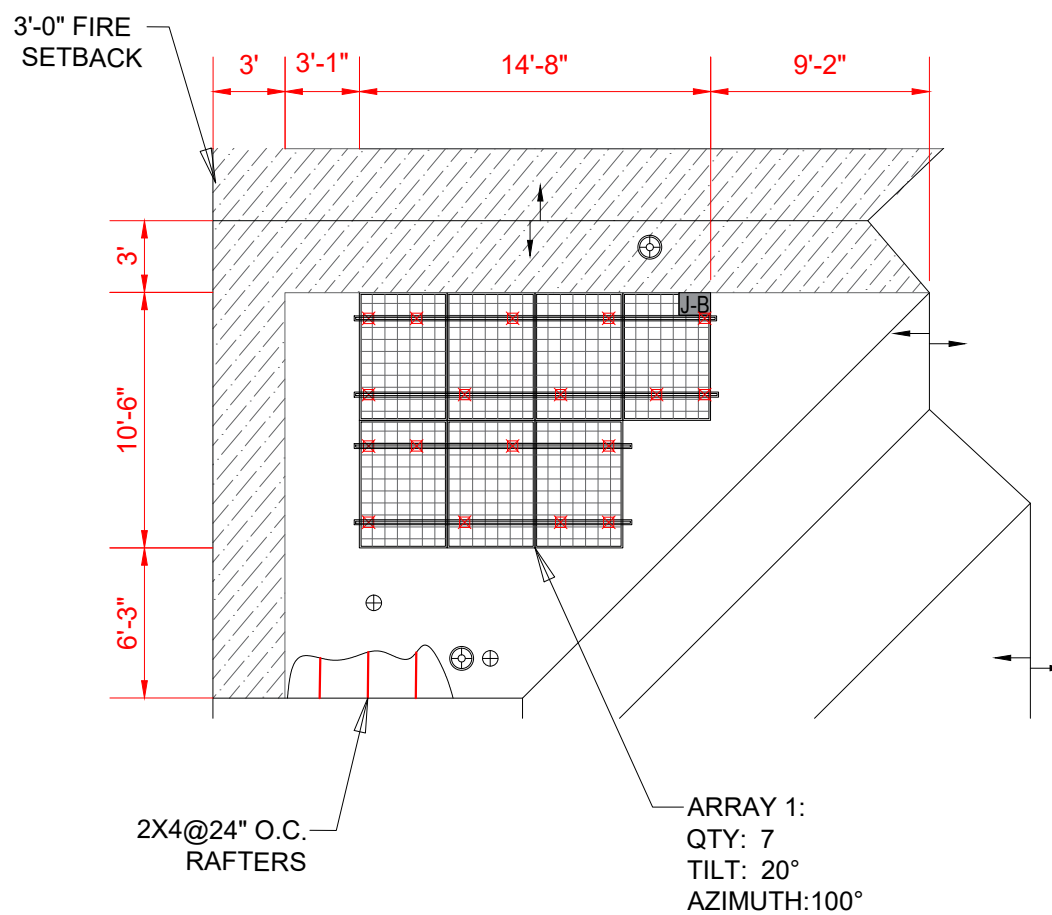


ARRAY 2:  
QTY: 21  
TILT: 20°  
AZIMUTH:280°

IRONRIDGE  
ALL TILE HOOK  
IRONRIDGE  
XR10

4'  
MAX.TYP

ARRAY LAYOUT TYP



2X4@24\"/>

ARRAY 1:  
QTY: 7  
TILT: 20°  
AZIMUTH:100°

SCALE: 1/8"=1'-0

**CONTRACTOR**

JG POWER CO.  
3486 MARSHALL ST  
RIVERSIDE, CA 92504  
PHONE: (714)717-5223

STATE LICENSE#: 1039874

LICENSE TYPE : C 10

EXPIRATION DATE : 05/31/2022

STAMP/ SIGNATURE :



**OWNER / ADDRESS**

SAN BERNARDINO, CA 92407

OCCUPANCY R3 /  
TYPE 5 STRU.

APN#: [REDACTED]

**SYSTEM SIZE**

9.081 KW-AC  
10.080 KW-DC

MODULES :  
(28) SOLARIA POWERXT, 360R-PD

INVERTER(S) :  
(1) SOLAREEDGE, STOREDGE SE7600A-USS  
(1) SOLAREEDGE, SE3000H-US

DATE: 06/25/20

REVISION :

**PAGE INFORMATION**

TITLE:  
ROOF LAYOUT  
RAFTER SIDE VIEW

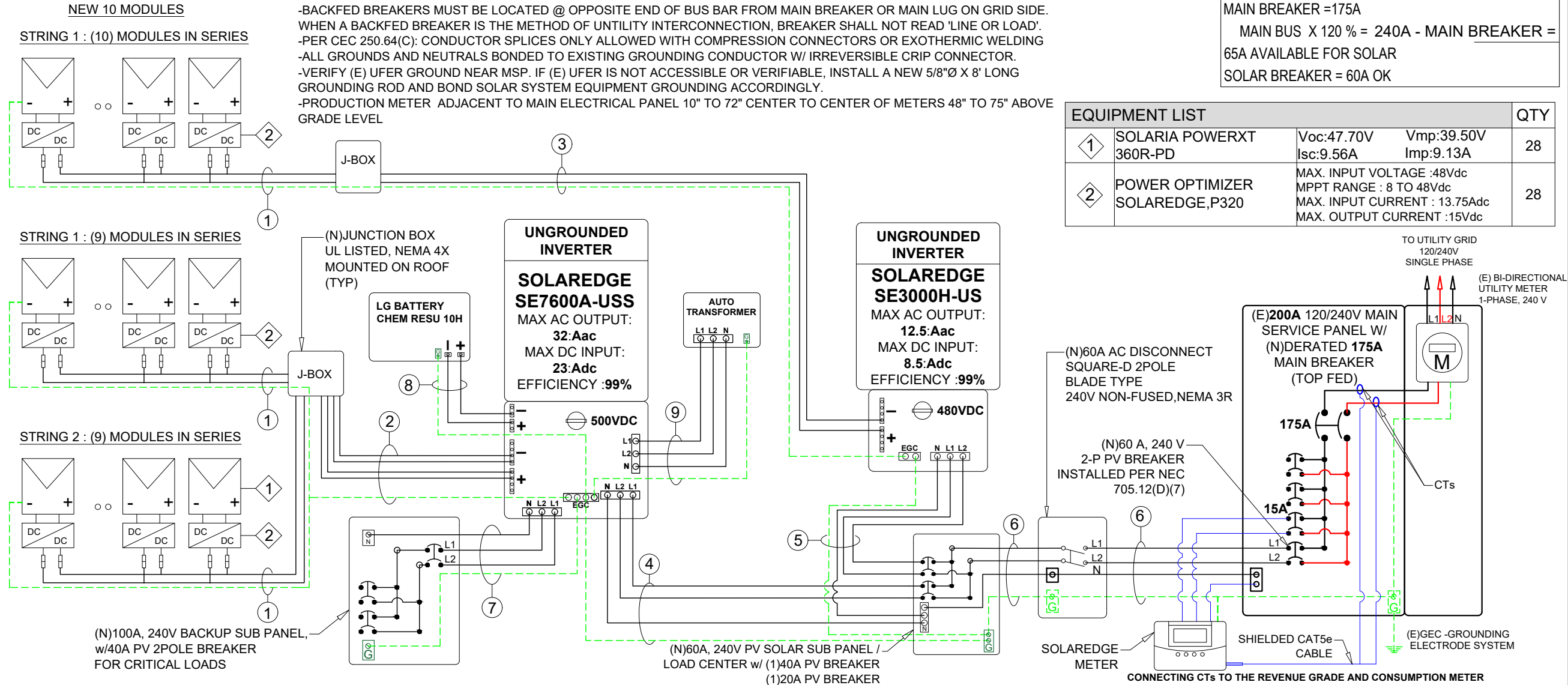
PV-03

WIRE TAG#	MAX AMPS X NEC MULT= DESIGN AMPS	BREAKER SIZE AMPS	WIRE TYPE	EGC / GRND.SIZE	WIRE RATING IN 90° X TEMP DERATE X CONDUCTOR DERATE = DERATE WIRE	TERMINAL 60°C RATING	CONDUIT SIZE CONDUIT FILL
①	15.0 x 1.25 =18.8A	20A	(2) #10 PV WIRE	(1)#6 THWN-2 BARE COPPER EGC	40 x 0.65 x 1.0 =26.0 >=18.8	20> =18.8	OPEN AIR
②	15.0 x 1.25 =18.8A	20A	(4) #10 THWN-2	(1)#6 THWN-2 EGC	40 x 0.65 x 0.8 =20.8 >=18.8	20> =18.8	3/4" EMT FILL: 0.1351 , 25%
③	15.0 x 1.25 =18.8A	20A	(2) #10 THWN-2	(1)#8 THWN-2 EGC	40 x 0.65 x 1.0 =26.0 >=18.8	20> =18.8	3/4" EMT FILL: 0.0929 , 17%
④	32.0 x 1.25 =40.0A	40A	(3) #8 THWN-2	(1)#8 THWN-2 EGC	55 x 0.91 x 1.0 =50.1 >=40.0	40> =40.0	3/4" EMT FILL: 0.1464 , 28%
⑤	12.5 x 1.25 =15.6A	20A	(3) #10 THWN-2	(1)#8 THWN-2 EGC	40 x 0.91 x 1.0 =36.4 >=15.6	20> =15.6	3/4" EMT FILL: 0.0999 , 19%
⑥	44.5 x 1.25 =55.6A	60A	(3) #6 THWN-2	(1)#8 THWN-2 EGC	75 x 0.91 x 1.0 =68.3 >=55.6	60> =55.6	3/4" EMT FILL: 0.1887 , 35%
⑦	32.0 x 1.25 =40.0A	40A	(3) #8 THWN-2	(1)#8 THWN-2 EGC	55 x 0.91 x 1.0 =50.1 >=40.0	40> =40.0	3/4" EMT FILL: 0.0844 , 16%
⑧	8.50 x 1.56 =13.3A	20A	(2) #10 THWN-2	(1)#8 THWN-2 EGC	40 x 0.91 x 1.0 =36.4 >=13.3	20> =13.3	3/4" EMT FILL: 0.6330 , 12%
⑨	32.0 x 1.25 =40.0A	40A	(3) #10 THWN-2	(1)#8 THWN-2 EGC	40 x 0.91 x 1.0 =36.4 >=40.0	40> =40.0	3/4" EMT FILL: 0.0844 , 16%

**NOTES:**  
 -SOLID BARE E.G.C. (FREE-AIR) MOUNTED UNDER ARRAY  
 -PER NEC 250.120(C): WHERE CONDUCTORS & GROUND WIRE ARE RUN EXPOSED ON ROOF FROM ARRAY TO J-BOX, CONDUCTORS & BARE GROUND WIRE SHALL BE CONCEALED INSTALL IN CONDUIT  
 -PER NEC ARTICLE 690.35 INVERTER GROUND FAULT PROTECTION PROVIDED  
 -ALL GROUNDS AND NEUTRALS BONDED TO EXISTING GROUNDING CONDUCTOR W/ IRREVERSIBLE CRIP CONNECTOR.  
 -BACKFED BREAKERS MUST BE LOCATED @ OPPOSITE END OF BUS BAR FROM MAIN BREAKER OR MAIN LUG ON GRID SIDE. WHEN A BACKFED BREAKER IS THE METHOD OF UTILITY INTERCONNECTION, BREAKER SHALL NOT READ 'LINE OR LOAD'.  
 -PER CEC 250.64(C): CONDUCTOR SPLICES ONLY ALLOWED WITH COMPRESSION CONNECTORS OR EXOTHERMIC WELDING  
 -ALL GROUNDS AND NEUTRALS BONDED TO EXISTING GROUNDING CONDUCTOR W/ IRREVERSIBLE CRIP CONNECTOR.  
 -VERIFY (E) UFER GROUND NEAR MSP. IF (E) UFER IS NOT ACCESSIBLE OR VERIFIABLE, INSTALL A NEW 5/8"Ø X 8' LONG GROUNDING ROD AND BOND SOLAR SYSTEM EQUIPMENT GROUNDING ACCORDINGLY.  
 -PRODUCTION METER ADJACENT TO MAIN ELECTRICAL PANEL 10" TO 72" CENTER TO CENTER OF METERS 48" TO 75" ABOVE GRADE LEVEL

**BUS RATING CALCULATION PER 705.12(D)(7)**  
 MAIN SERVICE PANEL BUS BAR =200A  
 MAIN BREAKER =175A  
 MAIN BUS X 120 % = 240A - MAIN BREAKER = 65A AVAILABLE FOR SOLAR  
 SOLAR BREAKER = 60A OK

EQUIPMENT LIST				QTY
①	SOLARIA POWERXT 360R-PD	Voc:47.70V Isc:9.56A	Vmp:39.50V Imp:9.13A	28
②	POWER OPTIMIZER SOLAREEDGE,P320	MAX. INPUT VOLTAGE :48Vdc MPPT RANGE : 8 TO 48Vdc MAX. INPUT CURRENT : 13.75Aadc MAX. OUTPUT CURRENT :.15Vdc		28



**CONTRACTOR**

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 3486 MARSHALL ST  
 RIVERSIDE, CA 92504  
 PHONE: (714)717-5223

STATE LICENSE#: 1039874

LICENSE TYPE : C 10

EXPIRATION DATE : 05/31/2022

STAMP/ SIGNATURE :



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[REDACTED]  
 SAN BERNARDINO, CA 92407

OCCUPANCY R3 /  
 TYPE 5 STRU.  
 APN#: [REDACTED]

**SYSTEM SIZE**

9.081 KW-AC  
 10.080 KW-DC

MODULES :  
 (28) SOLARIA POWERXT, 360R-PD

INVERTER(S) :  
 (1) SOLAREEDGE,STOREDGE SE7600A-USS  
 (1) SOLAREEDGE, SE3000H-US

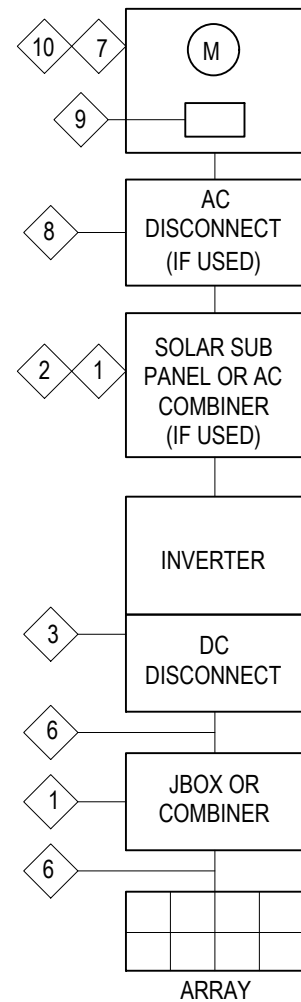
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**PAGE INFORMATION**

TITLE:  
 ELECTRICAL DIAGRAM

DISCLAIMER: If any Errors, Discrepancies or Omissions appear in these drawings, specifications or other contract documents; The Owner or General Contractor shall notify the Designer, in writing, of such error or omission. In the event that the Owner or General Contractor fails to give such notice, before construction and/or fabrication of the work, the Owner or General Contractor will be held responsible to the result of any errors, discrepancies or omissions and the cost of rectifying them.



**WARNING**  
 MAXIMUM VOLTAGE 500V  
 MAXIMUM CIRCUIT CURRENT 15A  
 MAX RATED OUTPUT CURRENT OF THE CHARGE CONTROLLER OR DC-TO-DC CONVERTER (IF INSTALLED) 15A  
 690.53

**WARNING: PHOTOVOLTAIC POWER SOURCE**  
 REFLECTIVE STICKER, 690.31(G)(3)(4)

**WARNING**  
 DUAL POWER SOURCE SECOND SOURCE IS PHOTOVOLTAIC SYSTEM  
 ORANGE WARNING AREA, 705.12(B)(3)

**PHOTOVOLTAIC AC DISCONNECT**  
 RATED AC OUTPUT CURRENT 44.5A  
 NOMINAL OPERATING AC VOLTAGE 240V  
 690.13(B), 690.54

**WARNING**  
 POWER SOURCE OUTPUT CONNECTION. DO NOT RELOCATE THIS OVERCURRENT DEVICE.  
 ORANGE WARNING AREA, 705.12(B)(2)(3)(b)

**WARNING**  
 ELECTRICAL SHOCK HAZARD  
 TERMINALS ON THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION  
 ORANGE WARNING AREA, 690.13(B)

**WARNING**  
 TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE PANEL  
 ORANGE WARNING AREA, 110.27(C)

**WARNING**  
 ELECTRICAL SHOCK HAZARD  
 TERMINALS ON THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION  
 DC VOLTAGE IS ALWAYS PRESENT WHEN SOLAR MODULES ARE EXPOSED TO SUNLIGHT  
 ORANGE WARNING AREA, 690.13(B)

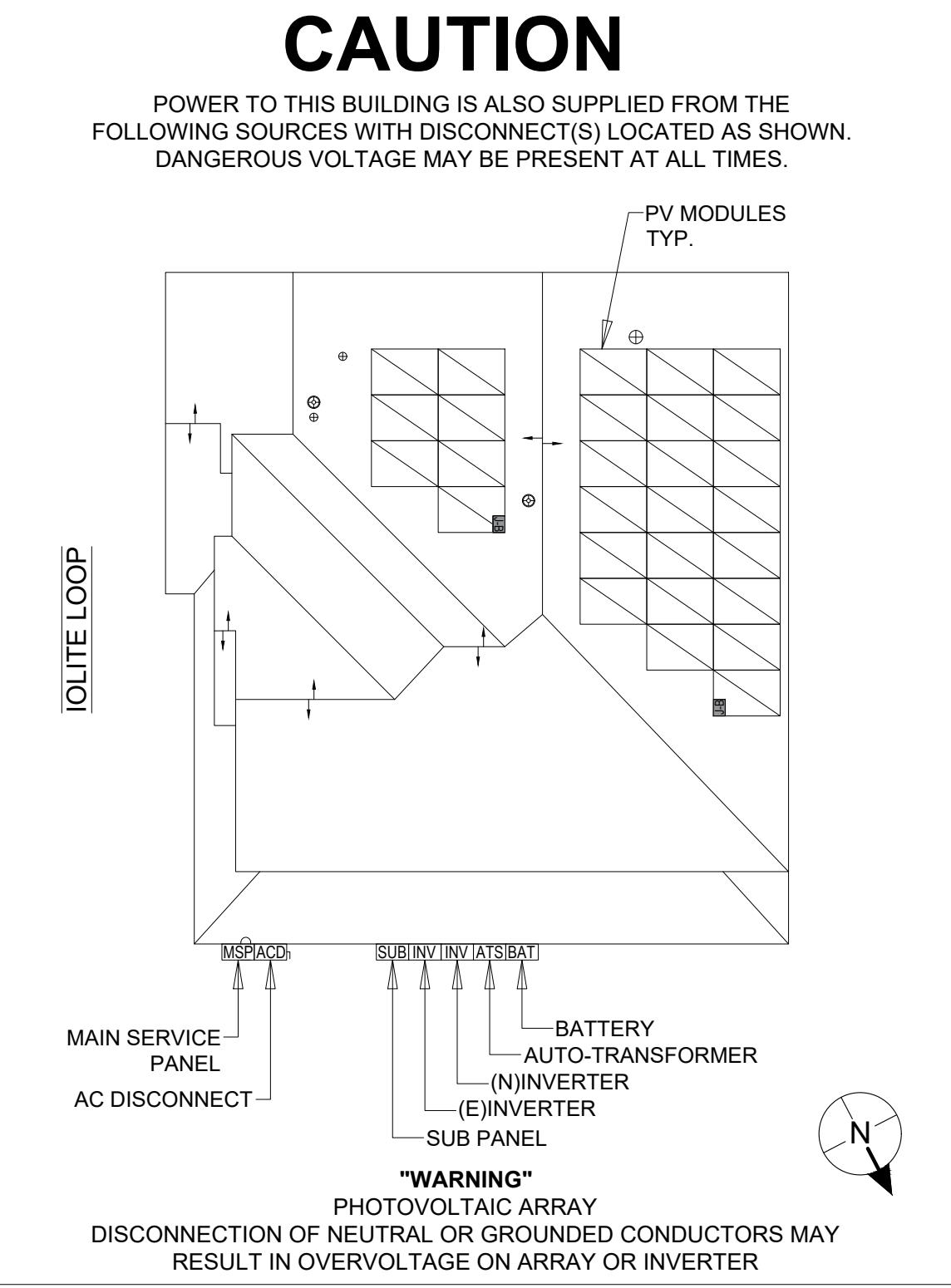
**PHOTOVOLTAIC DC DISCONNECT**  
 690.13(B)

**RAPID SHUTDOWN SWITCH FOR SOLAR SYSTEM**  
 REFLECTIVE STICKER, 690.56(C)(2)

**SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN**  
 TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO SHUTDOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN THE ARRAY

The title "SOLAR PV SYSTEM IS EQUIPPED WITH RAPID SHUTDOWN" shall utilize capitalized characters with a minimum height of 9.5 mm (3/8 in.) in black on yellow background and the remaining characters shall be capitalized with a minimum height of 4.8 mm (3/16 in.) in black on white background.  
 690.56(C)(1)(a)

**MIN.6"X8" PLACARD SHALL BE IN RED COLOR WITH PRINTED IN WHITE TO GO ON MAIN SERVICE PANEL CEC 705.10**



**PLAQUE SHALL BE ATTACHED TO THE SERVICE EQUIPMENT WITH POP-RIVETS OR SCREWS.**

- ARTICLES 690 AND 705 MARKINGS SHOWN HEREON
- ALL MARKINGS SHALL CONSIST OF THE FOLLOWING:
  - UV RESISTANT SIGN MATERIAL WITH ENGRAVED OR MACHINE PRINTED LETTERS OR ELECTRO-PLATING
  - RED BACKGROUND COLOR WITH WHITE TEXT AND LINE WORK UON
  - ARIAL FONT
- ALL SIGNS SHALL BE SIZED APPROPRIATELY AND PLACED IN THE LOCATIONS SPECIFIED.
- SIGNS SHALL BE ATTACHED TO THE SERVICE EQUIPMENT USING PERMANENT ADHESIVE, POP-RIVETS, OR SCREWS

**CONTRACTOR**

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 RIVERSIDE, CA 92504  
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 SAN BERNARDINO, CA 92407

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 10.080 KW-DC

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INVERTER(S) :  
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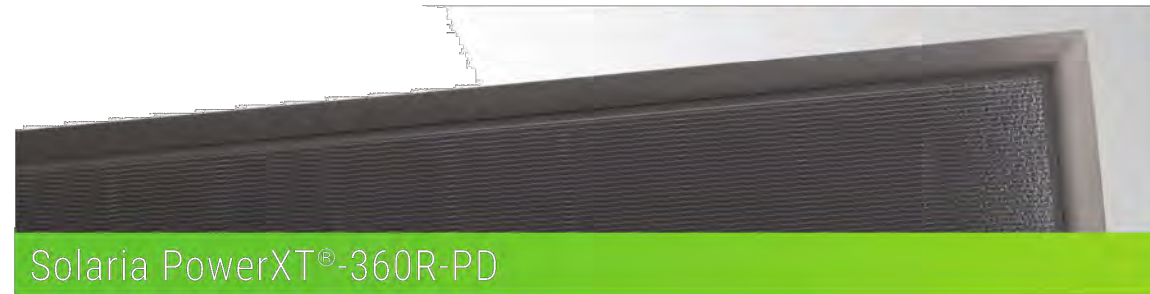
**PAGE INFORMATION**

**TITLE:**  
 WARNING LABELS

**PV-05**



## Solaria PowerXT® | Residential



Achieving up to 20% efficiency, Solaria PowerXT solar modules are one of the highest power modules in the residential solar market. Compared to conventional modules, Solaria PowerXT modules have fewer gaps between the solar cells; this leads to higher power and superior aesthetics. Solaria PowerXT residential modules are manufactured with black backsheet and frames, giving them a striking appearance.

Developed in California, Solaria's patented cell cutting and module assembly takes processed solar wafers and turns them into PowerXT solar modules. The process starts by creating a highly reliable PowerXT cell where busbars and ribbon interconnections are eliminated. Solaria then packages the cells into the PowerXT solar module, reducing inactive space between the cells. All of the above leads to an exceptionally efficient solar module produced in a cost effective manner.

### Higher Efficiency, Higher Power

Solaria PowerXT modules achieve up to 20% efficiency; conventional modules achieve 15% - 17% efficiency. Solaria PowerXT modules are one of the highest power modules available.

### Lower System Costs

Solaria PowerXT modules 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 module quadrants, which dramatically lowers the shading losses and boosts energy yield.

### Improved Aesthetics

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

### Durability and Reliability

Solder-less cell interconnections are highly reliable and designed to far exceed the industry leading 25 year warranty.



### About Solaria

Established in 2000, The Solaria Corporation has created one of the industry's most respected IP portfolios, with over 100 patents encompassing materials, processes, applications, products, manufacturing automation and equipment. Headquartered in Fremont, California, Solaria has developed a technology platform that unlocks the potential of solar energy allowing it to be ubiquitous and universally accessed.

The Solaria Corporation 6200 Paseo Padre Parkway, Fremont, CA 94555 P: (510) 270-2500 www.solaria.com  
Product specifications are subject to change without notice.



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Rev 1H 08-22-2018



## Solaria PowerXT®-360R-PD

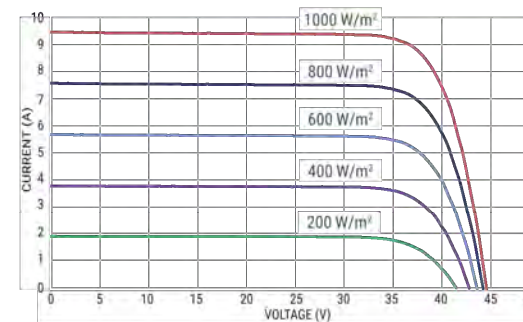
Performance at STC (1000W/m <sup>2</sup> , 25° C, AM 1.5)					
Solaria PowerXT-	345R-PD	350R-PD	355R-PD	360R-PD	
Max Power (P <sub>max</sub> )	[W]	345	350	355	360
Efficiency	[%]	19.1	19.4	19.6	19.9
Open Circuit Voltage (V <sub>oc</sub> )	[V]	46.9	47.1	47.4	47.7
Short Circuit Current (I <sub>sc</sub> )	[A]	9.46	9.49	9.53	9.56
Max Power Voltage (V <sub>mp</sub> )	[V]	38.5	38.8	39.1	39.5
Max Power Current (I <sub>mp</sub> )	[A]	8.93	9.02	9.09	9.13
Power Tolerance	[%]	-0/+3	-0/+3	-0/+3	-0/+3

Performance at NOCT (800W/m <sup>2</sup> , 20° C Amb, Wind 1 m/s, AM 1.5)					
Max Power (P <sub>max</sub> )	[W]	255	259	261	265
Open Circuit Voltage (V <sub>oc</sub> )	[V]	44.1	44.3	44.6	44.8
Short Circuit Current (I <sub>sc</sub> )	[A]	7.66	7.69	7.68	7.71
Max Power Voltage (V <sub>mp</sub> )	[V]	35.4	35.7	36.0	36.3
Max Power Current (I <sub>mp</sub> )	[A]	7.15	7.22	7.27	7.30

Temperature Characteristics		
NOCT	[°C]	45 +/-2
Temp. Coeff. of P <sub>max</sub>	[% / °C]	-0.39
Temp. Coeff. of V <sub>oc</sub>	[% / °C]	-0.29
Temp. Coeff. of I <sub>sc</sub>	[% / °C]	0.04

Design Parameters		
Operating temperature	[°C]	-40 to +85
Max System Voltage	[V]	1000
Max Fuse Rating	[A]	15
Bypass Diodes	[#]	4

### IV Curves vs. Irradiance (350W Module)



Authorized Dealer



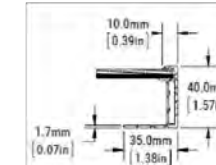
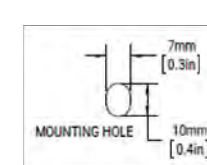
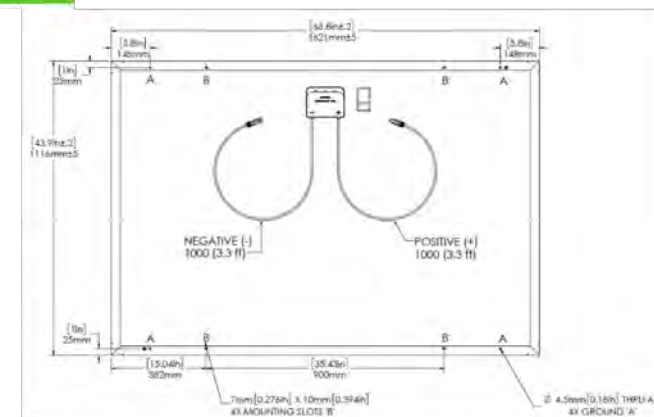
The Solaria Corporation 6200 Paseo Padre Parkway, Fremont, CA 94555 P: (510) 270-2500 www.solaria.com  
Product specifications are subject to change without notice.

Mechanical Characteristics	
Cell Type	Monocrystalline Silicon
Dimensions (L x W x H)	1621mm x 1116mm x 40mm
Weight	21 kg / 46 lbs
Glass Type / Thickness	AR Coated, Tempered / 3.2mm
Frame Type	Anodized Aluminum
Cable Type / Length	12 AWG PV Wire (UL) / 1000mm
Connector Type	Amphenol H4 (MC4 compatible)
Junction Box	IP67 / 4 diodes
Front Load (UL 1703)	5400 Pa / 113 psf*
Rear Load (UL 1703)	2400 Pa / 50 psf*

Certifications / Warranty	
Certifications	UL 1703/IEC 61215/IEC 61730/CEC CAN/CSA-C22.2

Fire Type (UL 1703)	1
Power & Product Warranty	25 years*

Packaging	
Stacking Method	Horizontal / Palletized
Pcs / Pallet	25
Pallet Dims	1668 x 1150 x 1230 mm
Pallet Weight	590 kg / 1300 lbs
Pallets / 40-ft Container	28
Pcs / 40-ft Container	700



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## CONTRACTOR

JG POWER CO.  
3486 MARSHALL ST  
RIVERSIDE, CA 92504  
PHONE: (714)717-5223

STATE LICENSE#: 1039874

LICENSE TYPE : C 10

EXPIRATION DATE : 05/31/2022

STAMP/ SIGNATURE :



## OWNER / ADDRESS

[REDACTED]  
SAN BERNARDINO, CA 92407

OCCUPANCY R3 /  
TYPE 5 STRU.

APN#: [REDACTED]

## SYSTEM SIZE

9.081 KW-AC  
10.080 KW-DC

MODULES :  
(28) SOLARIA POWERXT, 360R-PD

INVERTER(S) :  
(1) SOLAREEDGE, STOREDGE SE7600A-USS  
(1) SOLAREEDGE, SE3000H-US

DATE: 06/25/20

REVISION :

## PAGE INFORMATION

TITLE:  
SPECS

PV-06



## SolarEdge Single Phase StorEdge™ Solutions for North America



STOREDGE™

### SolarEdge StorEdge™ Solutions Benefits:

- More Energy - DC-coupled architecture stores PV power directly to the battery without AC conversion losses
- Simple Design & Installation - single inverter for PV, battery storage, grid-tied and backup applications
- Enhanced Safety - no high voltage during installation, maintenance or firefighting
- Full Visibility - monitor battery status, PV production, remaining backup power and self-consumption data

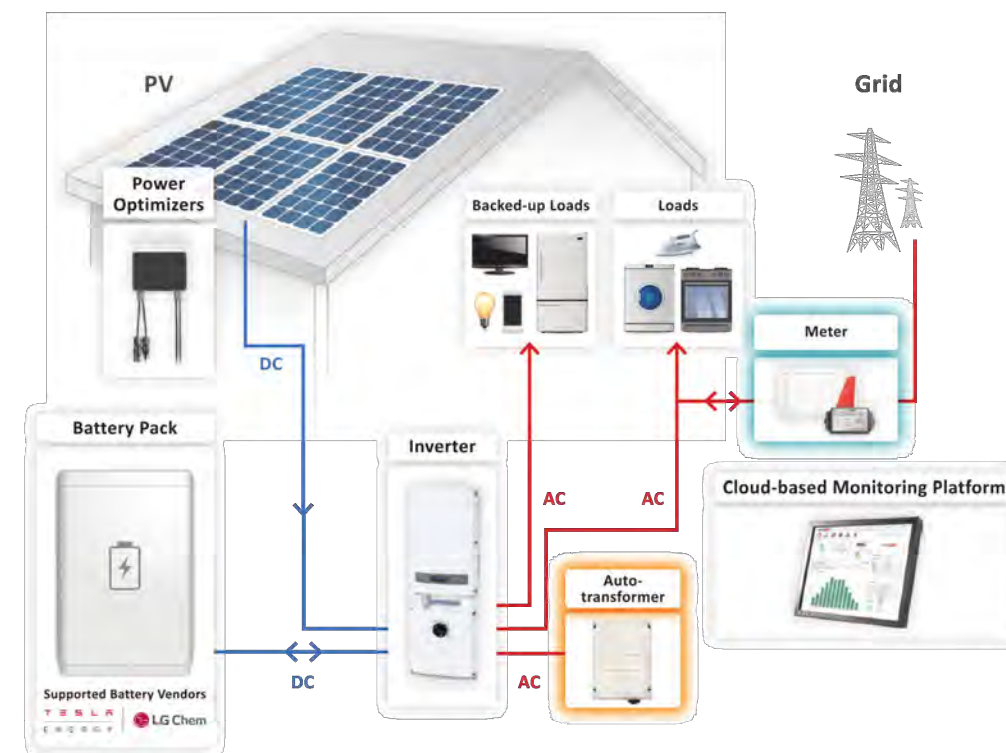
USA-CANADA-GERMANY-ITALY-FRANCE-JAPAN-CHINA-AUSTRALIA-THE NETHERLANDS-UK-ISRAEL-TURKEY-SOUTH AFRICA-BULGARIA [www.solaredge.us](http://www.solaredge.us)



## SolarEdge Single Phase StorEdge™ Solutions for North America

### StorEdge™ Features:

- Smart Energy Management - export control, time-of-use shifting, maximized self-consumption, demand response and peak shaving capabilities
- Backup power - automatically provides power to backed-up loads in the event of grid interruption
- All-in-one solution uses a single DC optimized phase inverter to manage and monitor both PV generation and energy storage
- Compatible with Tesla Powerwall Home Battery and the LG Chem RESU



SolarEdge StorEdge™ Solutions for North America - Product Selector

	Grid-tied solar, backup power and smart energy management	Grid-tied solar and backup power	Grid-tied solar and smart energy management
Single Phase StorEdge™ Inverter	✓	✓	✓
Auto-transformer	✓	✓	✓
SolarEdge Electricity Meter	✓	✓	✓
Battery	✓	✓	✓

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(1) SOLAREEDGE, SE3000H-US

DATE: 06/25/20

REVISION :

### PAGE INFORMATION

TITLE:  
SPECS

PV-07



## SolarEdge Single Phase StorEdge Inverter for North America SE7600A-US<sup>(1)</sup>

- Single inverter for PV, grid-tied storage and backup power
- Includes the hardware required to provide automatic backup power to backed-up loads in case of grid interruption
- Includes all interfaces needed for battery connection

SE7600A-US		
<b>OUTPUT - AC (LOADS/GRID)</b>		
Rated AC Power Output	7600	VA
Max AC Power Output	8350	VA
AC Output Voltage Min-Nom-Max (L-L) <sup>(2)</sup>	211-240-264	Vac
AC Frequency Min-Nom-Max <sup>(2)</sup>	59.3 - 60 - 60.5	Hz
Maximum Continuous Output Current @240V	32	A
GFDI	1	A
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes	
Charge Battery from AC (if Allowed)	Yes	
THD	<3	%
Power factor with rated power	>0.99 (configurable); 0.9 leading to 0.9 lagging	
Typical Nighttime Power Consumption	<5	W
<b>OUTPUT - AC (BACKUP POWER)<sup>(3)</sup></b>		
Rated AC Power Output	5000 <sup>(4)</sup>	VA
Max AC Power Output - Surge	6600	VA
AC Output Voltage Min-Nom-Max (L-L)	211-240-264	Vac
AC Output Voltage Min-Nom-Max (L-N)	105-120-132	Vac
AC Frequency Min-Nom-Max	55 - 60 - 65	Hz
Maximum Continuous Output Current @240V - Backup Mode	21	A
Max Continuous Output Current per Phase @120V	25	A
GFDI	1	A
AC Circuit Breaker	Yes	
THD	<5	%
Power factor with rated power	0.2 leading to 0.2 lagging	
Automatic switchover time	<2	sec
Typical Nighttime Power Consumption	<5	W
<b>INPUT - DC (PV and BATTERY)</b>		
Transformer-less, Ungrounded	Yes	
Max Input Voltage	500	Vdc
Nom DC Input Voltage	400	Vdc
Reverse-Polarity Protection	Yes	
Ground-Fault Isolation Detection	600kΩ Sensitivity	
Maximum Inverter Efficiency	98	%
CEC Weighted Efficiency	97.5	%
<b>INPUT - DC (PV)</b>		
Maximum DC Power (STC)	10250	W
Max Input Current <sup>(5)</sup>	23	Adc
2-pole Disconnection	Yes	
<b>INPUT - DC (BATTERY)</b>		
Continuous Peak Power	3300	W
Number of Batteries per Inverter <sup>(6)</sup>	1	2 for high capacity
Supported Battery Types	LG Chem RESU 10H Tesla Powerwall 1	Tesla Powerwall 1
Max Input Current	8.5	Adc
2-pole Disconnection	Yes	
DC Fuses on Plus and Minus	12A (field replaceable)	
<b>ADDITIONAL FEATURES</b>		
Supported Communication Interfaces	RS485 for battery, RS485, Ethernet, ZigBee (optional)	
Battery Power Supply	Yes, 12V / 53W	
Revenue Grade Data, ANSI C12.20	Optional <sup>(7)</sup>	
Integrated AC, DC and Communication Connection Unit	Yes	
AC Disconnect	Yes	
Manual Inverter Bypass Switch	Yes	
DC Voltage Rapid Shutdown (PV and Battery)	Yes, according to NEC 2014 690.12	
Auto-transformer thermal protection	Yes	

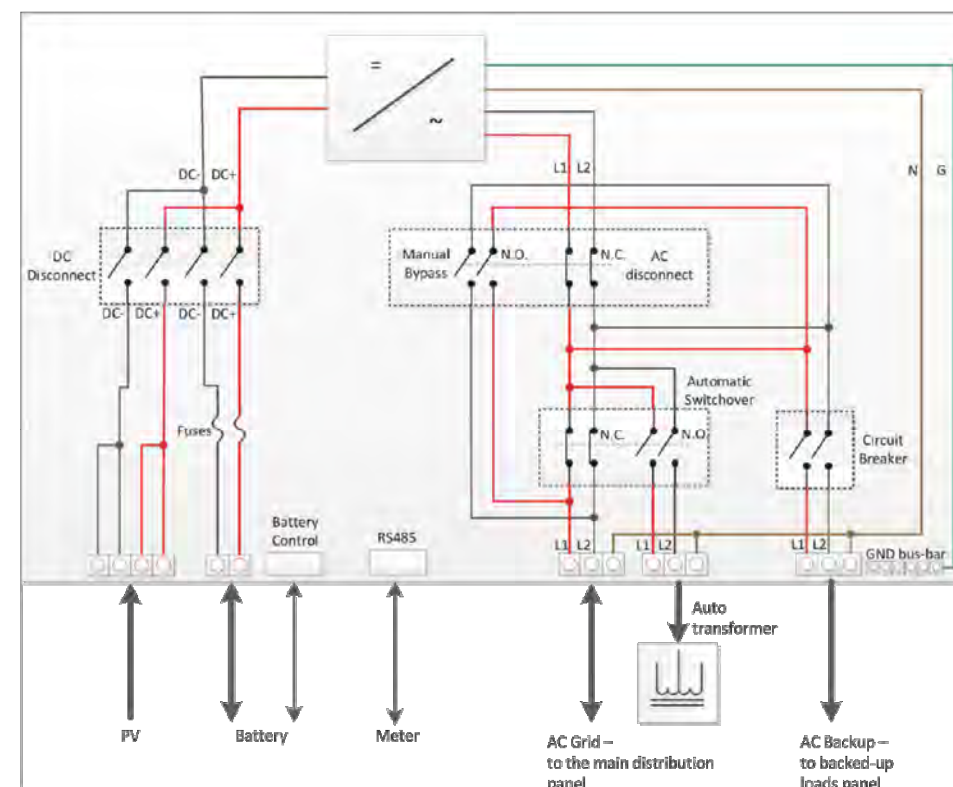
<sup>(1)</sup> These specifications apply to inverters with part numbers SE7600A-US50XXXXX and connection unit model number BCU-1PH-US5  
<sup>(2)</sup> For other regional settings please contact SolarEdge Support  
<sup>(3)</sup> Not designed for standalone applications and requires AC for commissioning  
<sup>(4)</sup> The rated AC power output is the minimum between 5000VA and the battery continuous peak power  
<sup>(5)</sup> A higher current source may be used; the inverter will limit its input current to the values stated  
<sup>(6)</sup> For two batteries for double power contact SolarEdge technical support  
<sup>(7)</sup> Revenue grade inverter P/N: SE7600A-US502NNG2



## SolarEdge Single Phase StorEdge Inverter for North America SE7600A-US

SE7600A-US5		
<b>STANDARD COMPLIANCE</b>		
Safety	UL1741, UL1699B, UL1998, UL9540, CSA 22.2	
Grid Connection Standards	IEEE1547, Rule 21, Rule 14	
Emissions	FCC part15 class B	
<b>INSTALLATION SPECIFICATIONS</b>		
AC Output (Loads/Grid) conduit size / AWG range	1" / 14-6 AWG	
AC Output (Backup) conduit size / AWG range	0.75-1" knockouts / 14-6 AWG	
AC Input (Auto-transformer) conduit size / AWG range	0.75-1" / 14-6 AWG	
DC Input (PV) conduit size / # of Strings / AWG range	0.75" / 1-2 Strings 14-8 AWG	
DC Input (Battery) conduit size / AWG range	0.75" / 16-10 AWG	
Dimensions with Connection Unit (HxWxD)	37 x 12.5 x 7.2 / 940 x 315 x 184	in / mm
Weight with Connection Unit	58.5 / 26.5	lb / kg
Cooling	Natural convection and internal fan (user replaceable)	
Noise	<50	
Min - Max Operating Temperature	-13 to +140 / -25 to +60	
Protection Rating	NEMA 3R	

**Inverter Interface**



### CONTRACTOR

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 PHONE: (714)717-5223

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OCCUPANCY R3 /  
 TYPE 5 STRU.

APN#: [REDACTED]

### SYSTEM SIZE

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 10.080 KW-DC

MODULES :  
 (28) SOLARIA POWERXT, 360R-PD

INVERTER(S) :  
 (1) SOLAREEDGE, STOREDGE SE7600A-US5  
 (1) SOLAREEDGE, SE3000H-US

DATE: 06/25/20

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### PAGE INFORMATION

TITLE:  
 SPECS

PV-08





## SolarEdge Auto-transformer

SEAUTO-TX-5000

SEAUTO-TX-5000		
<b>ELECTRICAL RATINGS</b>		
Rated Power - Continuous	5000	VA
Rated Power - Peak	7600 for 10sec	VA
Output Voltage	120/240V Split Phase	
Max Continuous Output Current per Phase @120V	25	A
Split Phase Imbalance (@Rated Power)	Yes, up to 25A difference between phases	
Thermal Protection	Yes	
<b>INSTALLATION SPECIFICATIONS</b>		
AC Output conduit size / AWG range	0.75" / 14-6 AWG	
Dimensions (HxWxD)	6.7 x 7.9 x 5.5 / 170 x 200 x 140	in / mm
Weight	29.7 / 13.5	lb / kg
Min - Max Operating Temperature	-13 to +140 / -25 to +60	°F / °C
Protection Rating	NEMA 3R	
Installation	Wall mounted	



## SolarEdge Electricity Meter for North America

SE-MTR240-0-000-S2

For meter specifications refer to: [https://www.solaredge.com/sites/default/files/se\\_electricity\\_meter\\_na.pdf](https://www.solaredge.com/sites/default/files/se_electricity_meter_na.pdf)



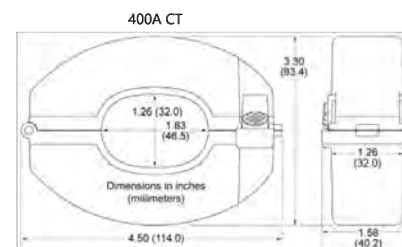
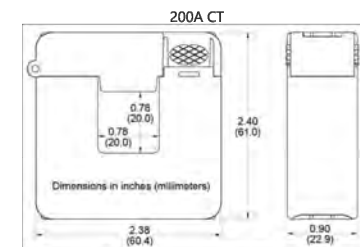
## Energy Meter with Modbus Connection for North America

SE-MTR240-NN-S-S1

SUPPORTED INVERTERS	SINGLE PHASE INVERTERS	UNITS
<b>ELECTRICAL SERVICE</b>		
AC Input Voltage (Nominal)	240	Vac
AC Frequency (Nominal)	60	Hz
Max AC Input Current	100	mA
Connector Type	Terminal block - 22 to 12	AWG
Grids supported	L1 / L2 / N / PE L3 / L2 / PE	
Power Consumption (Nominal)	3	W
<b>METER ACCURACY (@ 77°F / 25°C, PF:0.7- 1)</b>		
1 - 100% of Rated Current CT	±1.0	%
<b>CURRENT TRANSFORMERS<sup>(1)</sup></b>		
Nominal Input (at CT Rated Current)	CT1, CT2: 0.333	Vac RMS
Rated RMS current <sup>(2)</sup>	200	A
Dimensions (Internal / External)	0.8 x 0.8; 2.4 x 2.4 / 20 x 20; 61 x 61	1.26 x 1.83; 3.3 x 4.5 / 32 x 46.5; 83.4 x 114
<b>STANDARD COMPLIANCE</b>		
Safety	UL 1741:2010 Ed.2(Supplement SA)+R: 07 Sep 2016	
Emmissions	FCC 47 CFR Part 15 Subpart B	
<b>ENVIRONMENTAL</b>		
Operating Temperatures	-40 to +140 / -40 to +60	
Relative Humidity (noncondensing)	5-90	
Enclosure type	High impact, ABS and/or ABS/PC plastic UL 94V-0, IEC FV-0	
Protection Rating	NEMA Type 3R	
<b>INSTALLATION SPECIFICATIONS</b>		
Dimensions (HxWxD)	8.1 x 12.4 x 4.6 / 206.6 x 316 x 117.5	
Weight	3.9 / 1.8	
Conduit Entry Diameters	0.75 or 1 / 19 or 25	
Mounting Type	Bracket mount	

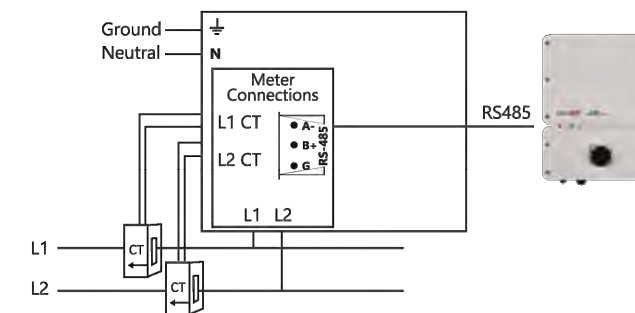
<sup>(1)</sup> Current Transformers should be ordered separately: SEACT0750-200NA-20 (200A) or SEACT1250-400NA-20 (400A), 20 per box  
<sup>(2)</sup> For other ratings contact SolarEdge

Current Transformer Dimensions



\* Current Transformers (CTs) should be ordered separately: SEACT0750-200NA-20 (200A); SEACT1250-400NA-20 (400A). Each comes in boxes of 20.

Connecting the Energy Meter



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3486 MARSHALL ST  
RIVERSIDE, CA 92504  
PHONE: (714)717-5223

STATE LICENSE#: 1039874

LICENSE TYPE : C 10

EXPIRATION DATE : 05/31/2022

STAMP/ SIGNATURE :



### OWNER / ADDRESS

SAN BERNARDINO, CA 92407

OCCUPANCY R3 /  
TYPE 5 STRU.

APN#: [REDACTED]

### SYSTEM SIZE

9.081 KW-AC  
10.080 KW-DC

MODULES :  
(28) SOLARIA POWERXT, 360R-PD

INVERTER(S) :  
(1) SOLAREGE, STOREDGE SE7600A-USS  
(1) SOLAREGE, SE3000H-US

DATE: 06/25/20

REVISION :

### PAGE INFORMATION

TITLE:  
SPECS

PV-09

# Single Phase Inverter with HD-Wave Technology

for North America

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

12-25  
YEAR WARRANTY



INVERTERS

## Optimized installation with HD-Wave technology

- Specifically designed to work with power optimizers
- Record-breaking efficiency
- Fixed voltage inverter for longer strings
- Integrated arc fault protection and rapid shutdown for NEC 2014 and 2017, per article 690.11 and 690.12
- UL1741 SA certified, for CPUC Rule 21 grid compliance
- Extremely small
- Built-in module-level monitoring
- Outdoor and indoor installation
- Optional: Revenue grade data, ANSI C12.20 Class 0.5 (0.5% accuracy)

solaredge.com



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

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

	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US		
<b>OUTPUT</b>									
Rated AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	VA	
Maximum AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	VA	
AC Output Voltage Min.-Nom.-Max. (211 - 240 - 264)	✓	✓	✓	✓	✓	✓	✓	Vac.	
AC Output Voltage Min.-Nom.-Max. (183 - 208 - 229)	-	✓	-	✓	-	-	✓	Vac.	
AC Frequency (Nominal)	59.3 - 60 - 60.5 <sup>1)</sup>							Hz	
Maximum Continuous Output Current @240V	12.5	16	21	25	32	42	47.5	A	
Maximum Continuous Output Current @208V	-	16	-	24	-	-	48.5	A	
GFDI Threshold	1							A	
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes								
<b>INPUT</b>									
Maximum DC Power @240V	4650	5900	7750	9300	11800	15500	17650	W	
Maximum DC Power @208V	-	5100	-	7750	-	-	15500	W	
Transformer-less, Ungrounded	Yes								
Maximum Input Voltage	480							Vdc	
Nominal DC Input Voltage	380							Vdc	
Maximum Input Current @240V <sup>2)</sup>	8.5	10.5	13.5	16.5	20	27	30.5	Adc	
Maximum Input Current @208V <sup>2)</sup>	-	9	-	13.5	-	-	27	Adc	
Max. Input Short Circuit Current	45							Adc	
Reverse-Polarity Protection	Yes								
Ground-Fault Isolation Detection	600ks Sensitivity								
Maximum Inverter Efficiency	99			99.2				%	
CEC Weighted Efficiency	99						99 @ 240V 98.5 @ 208V	%	
Nighttime Power Consumption	< 2.5							W	
<b>ADDITIONAL FEATURES</b>									
Supported Communication Interfaces	RS485, Ethernet, ZigBee (optional), Cellular (optional)								
Revenue Grade Data, ANSI C12.20	Optional <sup>3)</sup>								
Rapid Shutdown - NEC 2014 and 2017 690.12	Automatic Rapid Shutdown upon AC Grid Disconnect								
<b>STANDARD COMPLIANCE</b>									
Safety	UL1741, UL1741 SA, UL1699B, CSA C22.2, Canadian AFCI according to T.L.L. M-07								
Grid Connection Standards	IEEE1547, Rule 21, Rule 14 (HI)								
Emissions	FCC Part 15 Class B								
<b>INSTALLATION SPECIFICATIONS</b>									
AC Output Conduit Size / AWG Range	1" Maximum / 14-6 AWG				1" Maximum / 14-4 AWG				
DC Input Conduit Size / # of Strings / AWG Range	1" Maximum / 1-2 strings / 14-6 AWG				1" Maximum / 1-3 strings / 14-6 AWG				
Dimensions with Safety Switch (HxWxD)	17.7 x 14.6 x 6.8 / 450 x 370 x 174				21.3 x 14.6 x 7.3 / 540 x 370 x 185				in / mm
Weight with Safety Switch	22 / 10	25.1 / 11.4	26.2 / 11.9	38.8 / 17.6					lb / kg
Noise	< 25				< 50				dBA
Cooling	Natural Convection								
Operating Temperature Range	-13 to +140 / -25 to +60 <sup>4)</sup> (-40°F / -40°C option) <sup>5)</sup>							°F / °C	
Protection Rating	NEMA 4X (Inverter with Safety Switch)								

<sup>1)</sup> For other regional settings please contact SolarEdge support.  
<sup>2)</sup> A higher current source may be used; the inverter will limit its input current to the values stated.  
<sup>3)</sup> Revenue grade inverter P/N: SE000H-US000N2  
<sup>4)</sup> For power de-rating information refer to: <https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf>  
<sup>5)</sup> -40 version P/N: SE000H-US000NNU4

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RoHS

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### PAGE INFORMATION

TITLE:  
SPECS

PV-10

# Power Optimizer

For North America

P320 / P340 / P370 / P400 / P405 / P485 / P505



POWEROPTIMIZER

## PV power optimization at the module-level

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

solaredge.com



## Power Optimizer For North America

P320 / P340 / P370 / P400 / P405 / P485 / P505

Optimizer model (typical module compatibility)	P320 (for 60-cell modules)	P340 (for high-power 60-cell modules)	P370 (for higher-power 60 and 72-cell modules)	P400 (for 72 & 96-cell modules)	P405 (for high-voltage modules)	P485 (for high-voltage modules)	P505 (for higher current modules)		
<b>INPUT</b>									
Rated Input DC Power <sup>1)</sup>	320	340	370	400	405	485	505	W	
Absolute Maximum Input Voltage (Voc at lowest temperature)	48		60	80	125 <sup>2)</sup>		83 <sup>2)</sup>	Vdc	
MPPT Operating Range	8 - 48		8 - 60	8 - 80	12.5 - 105		12.5 - 83	Vdc	
Maximum Short Circuit Current (Isc)	11			10.1		14		Adc	
Maximum DC Input Current	13.75			12.5		17.5		Adc	
Maximum Efficiency				99.5				%	
Weighted Efficiency				98.8				%	
Overtolerance Category				II					
<b>OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING SOLAREEDGE INVERTER)</b>									
Maximum Output Current				15				Adc	
Maximum Output Voltage	60					85		Vdc	
<b>OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM SOLAREEDGE INVERTER OR SOLAREEDGE INVERTER OFF)</b>									
Safety Output Voltage per Power Optimizer				1 ± 0.1				Vdc	
<b>STANDARD COMPLIANCE</b>									
EMC				FCC Part15 Class B, IEC61000-6-2, IEC61000-6-3					
Safety				IEC62109-1 (class II safety), UL1741					
Material				UL94 V-0, UV Resistant					
RoHS				Yes					
<b>INSTALLATION SPECIFICATIONS</b>									
Maximum Allowed System Voltage				1000				Vdc	
Compatible inverters				All SolarEdge Single Phase and Three Phase inverters					
Dimensions (W x L x H)	129 x 153 x 27.5 / 5.1 x 6 x 1.1		129 x 153 x 33.5 / 5.1 x 6 x 1.3		129 x 159 x 49.5 / 5.1 x 6.3 x 1.9		129 x 162 x 59 / 5.1 x 6.4 x 2.3		mm / in
Weight (including cables)	630 / 1.4		750 / 1.7		845 / 1.9		1064 / 2.3		gr / lb
Input Connector				MC4 <sup>3)</sup>		Single or dual MC4 <sup>3)(4)</sup>		MC4 <sup>3)</sup>	
Input Wire Length				0.16 / 0.52				m / ft	
Output Wire Type / Connector				Double Insulated / MC4					
Output Wire Length	0.9 / 2.95		1.2 / 3.9		1.2 / 3.9		1.2 / 3.9		m / ft
Operating Temperature Range <sup>5)</sup>				-40 - +85 / -40 - +185				°C / °F	
Protection Rating				IP68 / NEMA6P					
Relative Humidity				0 - 100				%	

<sup>1)</sup> Rated power of the module at STC will not exceed the optimizer "Rated Input DC Power". Modules with up to +5% power tolerance are allowed.  
<sup>2)</sup> NEC 2017 requires max input voltage be not more than 80V.  
<sup>3)</sup> For other connector types please contact SolarEdge.  
<sup>4)</sup> For dual version for parallel connection of two modules use the P485. In the case of an odd number of PV modules in one string, installing one P485 dual version power optimizer.  
<sup>5)</sup> For ambient temperature above +85°C / +185°F power de-rating is applied. Refer to Power Optimizers Temperature De-Rating Technical Note for more details.

PV System Design Using a SolarEdge Inverter <sup>1)(2)</sup>	Single Phase HD-Wave	Single phase	Three Phase for 208V grid	Three Phase for 277/480V grid	
Minimum String Length (Power Optimizers)	P320, P340, P370, P400 P405, P485, P505	8	10	18	
Maximum String Length (Power Optimizers)		6	8	14	
Maximum String Length (Power Optimizers)		25	25	50 <sup>3)</sup>	
Maximum Power per String		5700 (6000 with SE7600-US - SE11400-US)	5250	6000 <sup>3)</sup>	12750 <sup>3)</sup> W
Parallel Strings of Different Lengths or Orientations		Yes			

<sup>1)</sup> For detailed string sizing information refer to: [http://www.solaredge.com/sites/default/files/string\\_sizing\\_na.pdf](http://www.solaredge.com/sites/default/files/string_sizing_na.pdf)  
<sup>2)</sup> It is not allowed to mix P405/P485/P505 with P320/P340/P370/P400 in one string.  
<sup>3)</sup> A string with more than 30 optimizers does not meet NEC rapid shutdown requirements; safety voltage will be above the 30V requirement.  
<sup>4)</sup> For 208V grid: it is allowed to install up to 6,500W per string when the maximum power difference between each string is 1,000W.  
<sup>5)</sup> For 277/480V grid: it is allowed to install up to 17,550W per string when the maximum power difference between each string is 2,000W.

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### CONTRACTOR

JG POWER CO.  
 3486 MARSHALL ST  
 RIVERSIDE, CA 92504  
 PHONE: (714)717-5223

STATE LICENSE#: 1039874

LICENSE TYPE : C 10

EXPIRATION DATE : 05/31/2022

STAMP/ SIGNATURE :



### OWNER / ADDRESS

[Redacted]  
 SAN BERNARDINO, CA 92407

OCCUPANCY R3 /  
 TYPE 5 STRU.

APN#: [Redacted]

### SYSTEM SIZE

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 10.080 KW-DC

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 (28) SOLARIA POWERXT, 360R-PD

INVERTER(S) :  
 (1) SOLAREEDGE, STOREDGE SE7600A-US  
 (1) SOLAREEDGE, SE3000H-US

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Innovation  
for a Better Life



# CHANGE YOUR ENERGY CHARGE YOUR LIFE



RESU



### Compact Size & Easy Installation

The compact and lightweight nature of the RESU allows easier and faster installation.



### Proven Safety

The safety of LG Chem's lithium-ion battery is proven in the automotive and ESS markets.



### Diverse Product Options

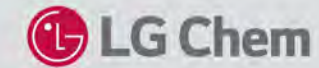
The RESU series offers diverse product options ranging from 3.3kWh to 13.1kWh.



www.gesspartner.com

\* The ees award is one of the most honorable awards presented annually at ees Europe, the largest exhibition for batteries and energy storage systems in Europe, with the purpose to pay tribute to pioneering products and solutions for energy storage system.

RESU



CHANGE YOUR ENERGY, CHARGE YOUR LIFE

48V



Models	RESU3.3	RESU6.5	RESU10	RESU13
Total Energy [kWh] <sup>1)</sup>	3.3	6.5	9.8	13.1
Usable Energy [kWh] <sup>2)</sup>	2.9	5.9	8.8	12.4
Capacity [Ah]	63	126	189	252
Nominal Voltage [V]	51.8			
Voltage Range [V]	42.0-58.8			
Max Power [kW]	3.0	4.2	5.0	5.0
Peak Power [kW] (for 3 sec.)	3.3	4.6	7.0	7.0 / 11.0 (Backup Mode)
Dimension (W x H x D, In)	17.8 x 15.9 x 4.7	17.8 x 25.8 x 4.7	17.8 x 19.1 x 8.9	17.8 x 24.6 x 8.9
Weight [lb]	68	115	165	214
Enclosure Protection Rating	IP55			
Communication	CAN2.0B			
Cell	UL1642			
Certificates	UL1973 / TUV (IEC 62619) / CE / FCC / RCM		TUV(IEC 62619)/CE/FCC/RCM	

Compatible Inverter Brands : SMA, SolaX, Ingeteam, Redback, GoodWe, Sungrow, Victron Energy, Selectronic - More brands to be added

1) Total Energy is measured at the initial stage of battery life under the condition as follows : Temperature 77°F  
2) Usable Energy is based on battery cell only

RESU PLUS



RESU Plus is an expansion kit specially designed for 48V models of new RESU series. With RESU Plus, all 48V models can be cross-connected with each other.

- Dimension : 8.5 x 6.1 x 4.8 (W x H x D, in)
- Number of Expandable Battery Units : Up to 2EA
- IP55

400V



Models	RESU7H		RESU10H	
	Type-R	Type-C	Type-R	Type-C
Total Energy [kWh] <sup>1)</sup>	7.0		9.8	
Usable Energy [kWh] <sup>2)</sup>	6.6		9.3	
Capacity [Ah]	63		63	
Voltage Range [V]	350-450	430-550	350-450	430-550
Max Power [kW]	3.5		5.0	
Peak Power [kW]	5.0 (for 5 sec.)	5.0 (for 10 sec.)	7.0 (for 10 sec.)	
Dimension (W x H x D, In)	29.3 x 27.3 x 8.1	29.3 x 35.7 x 8.1	29.3 x 35.7 x 8.1	29.3 x 35.7 x 8.1
Weight [lb]	165	192	214	220
Enclosure Protection Rating	IP55			
Communication	RS485	CAN2.0B	RS485	CAN2.0B
Cell	UL1642			
Certificates	TUV (IEC 62619) / CE / FCC / RCM		TUV (IEC 62619) / CE / RCM	
Product	UL1973 / TUV (IEC 62619) / CE / FCC / RCM		UL1973 / TUV (IEC 62619) / CE / FCC / RCM	

Compatible Inverter Brands : SMA, SolarEdge, Fronius, Huawei - More brands to be added

1) Total Energy is measured at the initial stage of battery life under the condition as follows : Temperature 77°F  
2) Usable Energy is based on battery cell only

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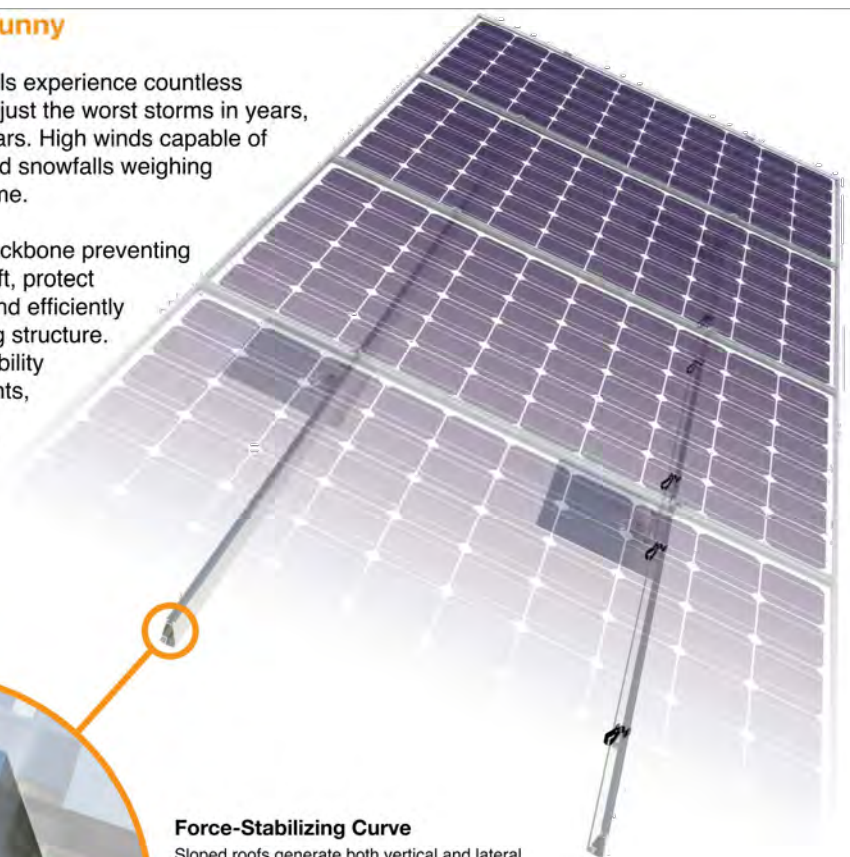
Tech Brief

## XR Rail Family

### Solar Is Not Always Sunny

Over their lifetime, solar panels experience countless extreme weather events. Not just the worst storms in years, but the worst storms in 40 years. High winds capable of ripping panels from a roof, and snowfalls weighing enough to buckle a panel frame.

XR Rails are the structural backbone preventing these results. They resist uplift, protect against buckling and safely and efficiently transfer loads into the building structure. Their superior spanning capability requires fewer roof attachments, reducing the number of roof penetrations and the amount of installation time.



#### Force-Stabilizing Curve

Sloped roofs generate both vertical and lateral forces on mounting rails which can cause them to bend and twist. The curved shape of XR Rails is specially designed to increase strength in both directions while resisting the twisting. This unique feature ensures greater security during extreme weather and a longer system lifetime.

#### Compatible with Flat & Pitched Roofs



XR Rails are compatible with FlashFoot and other pitched roof attachments.



IronRidge offers a range of tilt leg options for flat roof mounting applications.

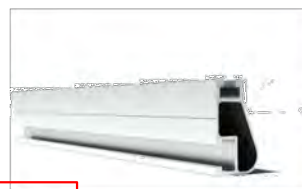
#### Corrosion-Resistant Materials

All XR Rails are made of marine-grade aluminum alloy, then protected with an anodized finish. Anodizing prevents surface and structural corrosion, while also providing a more attractive appearance.



### XR Rail Family

The XR Rail Family offers the strength of a curved rail in three targeted sizes. Each size supports specific design loads, while minimizing material costs. Depending on your location, there is an XR Rail to match.



**XR10**

XR10 is a sleek, low-profile mounting rail, designed for regions with light or no snow. It achieves 6 foot spans, while remaining light and economical.

- 6' spanning capability
- Moderate load capability
- Clear anodized finish
- Internal splices available



**XR100**

XR100 is the ultimate residential mounting rail. It supports a range of wind and snow conditions, while also maximizing spans up to 8 feet.

- 8' spanning capability
- Heavy load capability
- Clear & black anodized finish
- Internal splices available



**XR1000**

XR1000 is a heavyweight among solar mounting rails. It's built to handle extreme climates and spans 12 feet or more for commercial applications.

- 12' spanning capability
- Extreme load capability
- Clear anodized finish
- Internal splices available

### Rail Selection

The following table was prepared in compliance with applicable engineering codes and standards. Values are based on the following criteria: ASCE 7-10, Roof Zone 1, Exposure B, Roof Slope of 7 to 27 degrees and Mean Building Height of 30 ft. Visit IronRidge.com for detailed span tables and certifications.

Load		Rail Span					
Snow (PSF)	Wind (MPH)	4'	5' 4"	6'	8'	10'	12'
None	100	XR10		XR100		XR1000	
	120						
	140						
	160						
10-20	100			XR100		XR1000	
	120						
	140						
30	100					XR1000	
	160						
	100						
40	100						
	160						
50-70	100						
	160						
80-90	160						

Tech Brief

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PV-13

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Tech Brief

## Class A Fire Rating

### Background

All roofing products are tested and classified for their ability to resist fire.

Recently, these fire resistance standards were expanded to include solar equipment as part of the roof system. Specifically, this requires the modules, mounting hardware and roof covering to be tested together as a system to ensure they achieve the same fire rating as the original roof covering.

These new requirements are being adopted throughout the country in 2016.

### IronRidge Certification

IronRidge was the first company to receive a Class A Fire Rating—the highest possible rating—from Intertek Group plc., a Nationally Recognized Testing Laboratory.

IronRidge Flush Mount and Tilt Mount Systems were tested on sloped and flat roofs in accordance with the new UL 1703 & UL 2703 test standards. The testing evaluated the system's ability to resist flame spread, burning material and structural damage to the roof.

Refer to the table below to determine the requirements for achieving a Class A Fire Rating on your next project.

System	Roof Slope	Module	Fire Rating*
Flush Mount 	Any Slope	Type 1, 2, & 3	Class A
Tilt Mount 	≤ 6 Degrees	Type 1, 2, & 3	Class A

\*Class A rated PV systems can be installed on Class A, B, and C roofs.

### Fire Testing Process

#### Test Setup

##### Solar Modules

Solar modules are given a Type classification based on their materials and construction.

##### Mounting System

Mounting is tested as part of a system that includes type-tested modules and fire-rated roof covering.

##### Roof Covering

Roof covering products are given a Fire Class Rating of A, B or C based on their tested fire resistance.

#### Burning Brand Test



A burning wooden block is placed on module as a fan blows at 12 mph. Flame cannot be seen on underside of roof within 90 minutes.

#### Spread of Flame Test



Flame at southern edge of roof is aimed up the roof as a fan blows at 12 mph. The flame cannot spread 6 feet or more in 10 minutes.

### Frequently Asked Questions

#### What is a "module type"?

The new UL1703 standard introduces the concept of a PV module type, based on 4 construction parameters and 2 fire performance parameters. The purpose of this classification is to certify mounting systems without needing to test it with every module.

#### What roofing materials are covered?

All fire rated roofing materials are covered within this certification including composition shingle, clay and cement tile, metal, and membrane roofs.

#### What if I have a Class C roof, but the jurisdiction now requires Class A or B?

Generally, older roofs will typically be "grandfathered in", and will not require re-roofing. However, if 50% or more of the roofing material is replaced for the solar installation the code requirement will be enforced.

#### Where is the new fire rating requirement code listed?

2012 IBC: 1509.7.2 Fire classification. Rooftop mounted photovoltaic systems shall have the same fire classification as the roof assembly required by Section 1505.

#### Where is a Class A Fire Rating required?

The general requirement for roofing systems in the IBC refers to a Class C fire rating. Class A or B is required for areas such as Wildland Urban Interface areas (WUI) and for very high fire severity areas. Many of these areas are found throughout the western United States. California has the most Class A and B roof fire rating requirements, due to wild fire concerns.

#### Are standard mid clamps covered?

Mid clamps and end clamps are considered part of the PV "system", and are covered in the certification.

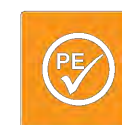
#### More Resources



#### Installation Manuals

Visit our website for manuals that include UL 2703 Listing and Fire Rating Classification.

[Go to IronRidge.com](http://Go to IronRidge.com)



#### Engineering Certification Letters

We offer complete engineering resources and pre-stamped certification letters.

[Go to IronRidge.com](http://Go to IronRidge.com)

Tech Brief

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OCCUPANCY R3 /  
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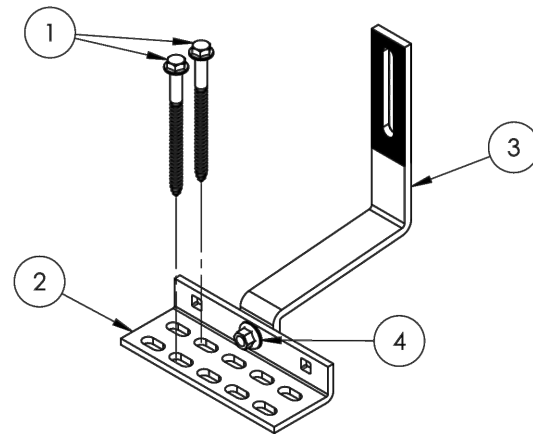
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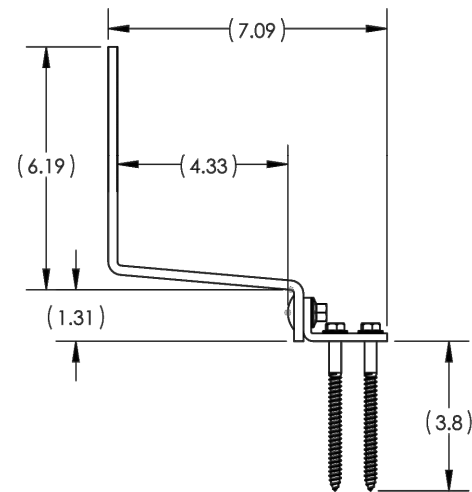
# All Tile Hook

Cut Sheet



ITEM NO.	DESCRIPTION	QTY IN KIT
1	BOLT, LAG 5/16 X 4"	2
2	ASSY, BASE, CLEAR	1
3	ASSY, ARM, CLEAR	1
4	BOLT, CARRIAGE 5/16 X 1"	1

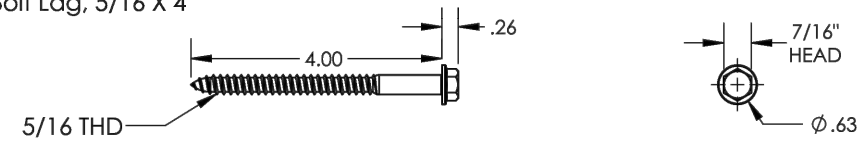
Part Number	Description
ATH-01-M1	All Tile Hook



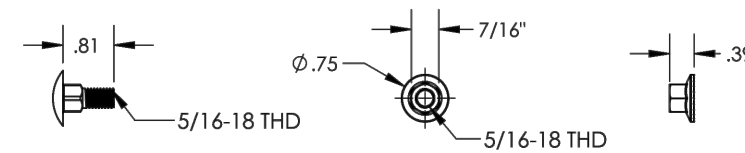
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Cut Sheet

1) Bolt Lag, 5/16 X 4"

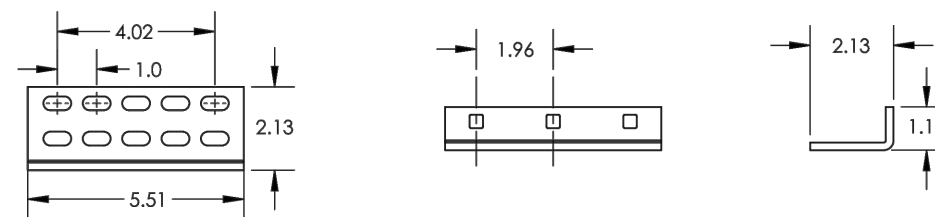


2) Bolt, Carriage 5/16 X 1"

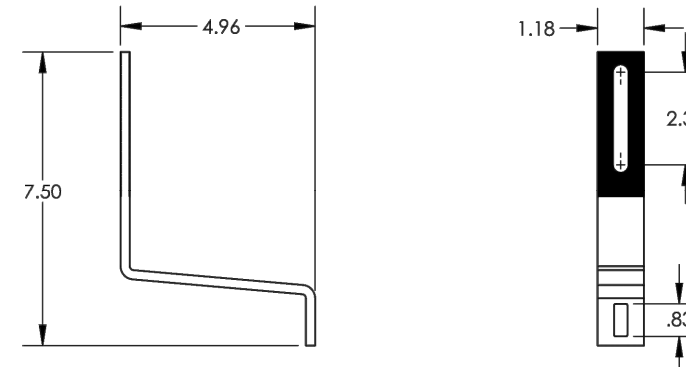


Items 1 & 2	Property	Value
	Material	300 Series Stainless Steel
	Finish	Clear

3) Base, Clear



4) Arm, Clear



Items 3 & 4	Property	Value
	Material	300 Series Stainless Steel
	Finish	Clear

v1.0

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PV-15



## UFO Family of Components

Tech Brief

### Simplified Grounding for Every Application

The UFO family of components eliminates the need for separate grounding hardware by bonding solar modules directly to IronRidge XR Rails. All system types that feature the UFO family—Flush Mount, Tilt Mount and Ground Mount—are fully listed to the UL 2703 standard.

UFO hardware forms secure electrical bonds with both the module and the rail, resulting in many parallel grounding paths throughout the system. This leads to safer and more reliable installations.



#### Stopper Sleeve

The Stopper Sleeve snaps onto the UFO, converting it into a bonded end clamp.



#### Universal Fastening Object (UFO)

The UFO securely bonds solar modules to XR Rails. It comes assembled and lubricated, and can fit a wide range of module heights.



#### Bonded Splice

Each Bonded Splice uses self-drilling screws to form a secure connection. No bonding strap needed.



#### Grounding Lug

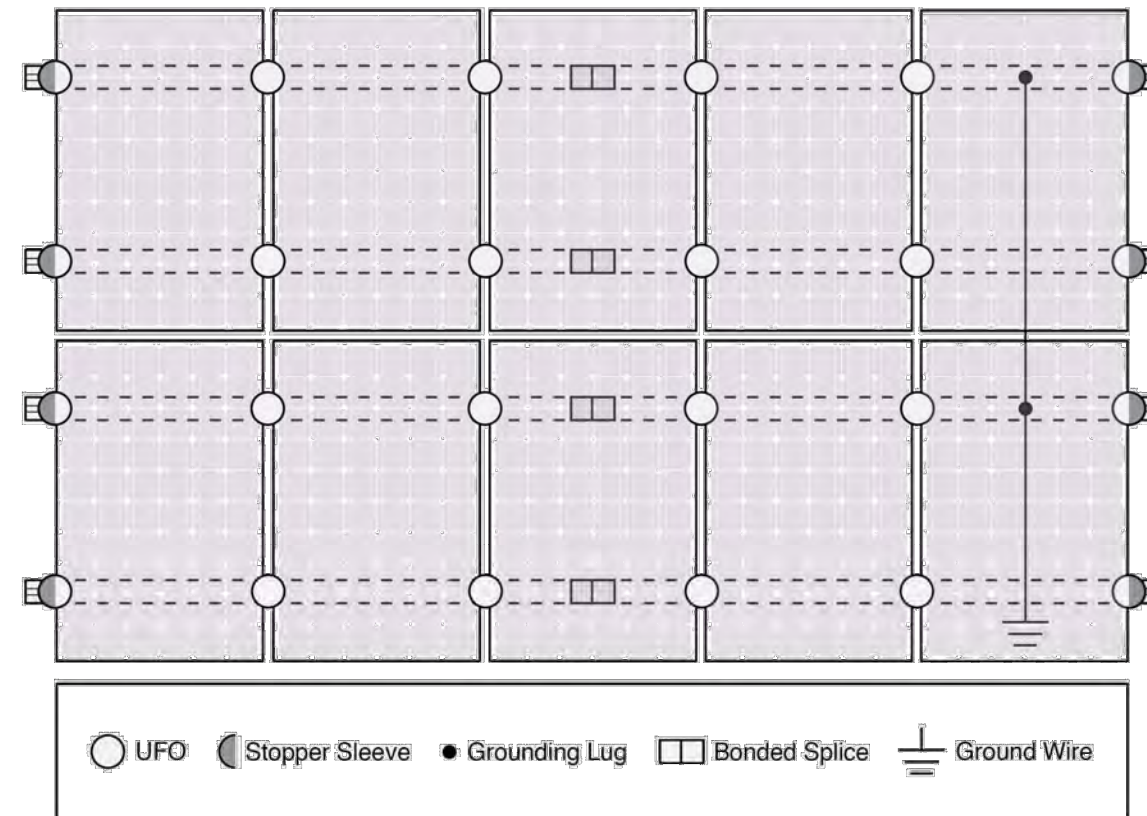
A single Grounding Lug connects an entire row of PV modules to the grounding conductor.



#### Bonded Attachments

The bonding bolt attaches and bonds the L-foot to the rail. It is installed with the same socket as the rest of the system.

### System Diagram



Approved Enphase microinverters can provide equipment grounding of IronRidge systems, eliminating the need for grounding lugs and field installed equipment ground conductors (EGC). A minimum of two microinverters mounted to the same rail and connected to the same Engage cable is required. Refer to installation manuals for additional details.

### UL Certification

The IronRidge Flush Mount, Tilt Mount, and Ground Mount Systems have been listed to UL 2703 by Intertek Group plc.

UL 2703 is the standard for evaluating solar mounting systems. It ensures these devices will maintain strong electrical and mechanical connections over an extended period of time in extreme outdoor environments.

[Go to IronRidge.com/UFO](http://Go to IronRidge.com/UFO)

Cross-System Compatibility			
Feature	Flush Mount	Tilt Mount	Ground Mount
<b>XR Rails</b>	✓	✓	XR1000 Only
<b>UFO/Stopper</b>	✓	✓	✓
<b>Bonded Splice</b>	✓	✓	N/A
<b>Grounding Lugs</b>	1 per Row	1 per Row	1 per Array
<b>Microinverters &amp; Power Optimizers</b>	Enphase - M250-72, M250-60, M215-60, C250-72 Darfon - MIG240, MIG300, G320, G640 SolarEdge - P300, P320, P400, P405, P600, P700, P730		
<b>Fire Rating</b>	Class A	Class A	N/A
<b>Modules</b>	Tested or Evaluated with over 400 Framed Modules Refer to installation manuals for a detailed list.		

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