GENERAL NOTES

1.1.1 PROJECT NOTES:

- 1.1.2 THIS PHOTOVOLTAIC (PV) SYSTEM SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE (NEC) ARTICLE 690, ALL MANUFACTURERS'S LISTING AND INSTALLATION INSTRUCTIONS, AND THE RELEVANT CODES AS SPECIFIED BY THE AUTHORITY HAVING JURISDICTION'S (AHJ) APPLICABLE CODES.
- 1.1.3 THE UTILITY INTERCONNECTION APPLICATION MUST BE APPROVED AND PV SYSTEM INSPECTED PRIOR TO PARALLEL OPERATION
- 1.1.4 ALL PV SYSTEM COMPONENTS; MODULES, UTILITY-INTERACTIVE INVERTERS, AND SOURCE CIRCUIT COMBINER BOXES ARE IDENTIFIED AND LISTED FOR USE IN PHOTOVOLTAIC SYSTEMS AS REQUIRED BY NEC 690.4 & NEC 690.60: PV MODULES: UL1703, IEC61730, AND IEC61215, AND NFPA 70 CLASS C FIRE INVERTERS: UL 1741 CERTIFIED, IEEE 1547, 929, 519 COMBINER BOX(ES): UL 1703 OR UL 1741 ACCESSORY
- 1.1.5 NEC 690.35 REFERS SPECIFICALLY TO "UNGROUNDED" PV SYSTEMS. ALSO DESIGNATED AS "TRANSFORMERLESS" BY INVERTER MANUFACTURERS AND "NON-ISOLATED" BY UNDERWRITERS LABORATORY.
- 1.1.6 INVERTER(S) USED IN UNGROUNDED SYSTEM SHALL BE LISTED FOR THIS USE INEC 690.35 (G)]
- 1.1.7 AS SPECIFIED BY THE AHJ, EQUIPMENT USED IN UNGROUNDED SYSTEMS LABELED ACCORDING TO NEC 690.35 (F).
- 1.1.8 MAX DC VOLTAGE CALCULATED USING MANUFACTURER PROVIDED TEMP COEFFICIENT FOR VOC. IF UNAVAILABLE. MAX DC VOLTAGE CALCULATED ACCORDING TO NEC 690.7.
- 1.1.9 ALL INVERTERS, PHOTOVOLTAIC MODULES, PHOTOVOLTAIC PANELS, AND SOURCE CIRCUIT COMBINERS INTENDED FOR USE IN A PHOTOVOLTAIC POWER SYSTEM WILL BE IDENTIFIED AND LISTED FOR THE APPLICATION PER 690.4 (D). SHALL BE
- INSTALLED ACCORDING TO ANY INSTRUCTIONS FROM LISTING OR LABELING [NEC 110.31
- 1.1.10 ALL SIGNAGE TO BE PLACED IN ACCORDANCE WITH LOCAL BUILDING CODE. IF EXPOSED TO SUNLIGHT, IT SHALL BE UV RESISTANT. ALL PLAQUES AND SIGNAGE WILL BE INSTALLED AS REQUIRED BY THE NEC AND AHJ.

1.2.1 SCOPE OF WORK:

1.2.2 PRIME CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND SPECIFICATIONS OF THE GRID-TIED PHOTOVOLTAIC SYSTEM RETROFIT. PRIME CONTRACTOR WILL BE RESPONSIBLE FOR COLLECTING EXISTING ONSITE REQUIREMENTS TO DESIGN, SPECIFY, AND INSTALL THE EXTERIOR ROOF-MOUNTED PORTION OF THE PHOTOVOLTAIC SYSTEMS DETAILED IN THIS DOCUMENT.

1.3.1 WORK INCLUDES:

- 1.3.2 PV ROOF ATTACHMENTS IRONRIDGE FLASHFOOT2
- 1.3.3 PV RACKING SYSTEM INSTALLATION IRONRIDGE XR10
- 1.3.4 PV MODULE AND INVERTER INSTALLATION PEIMAR SM325M (FB) / SOLAR EDGE SE11400H-US
- 1.3.5 PV EQUIPMENT GROUNDING
- 1.3.6 PV SYSTEM WIRING TO A ROOF-MOUNTED SOLADECK JUNCTION BOX
- 1.3.7 PV LOAD CENTERS (IF INCLUDED)
- 1.3.8 PV METERING/MONITORING (IF INCLUDED)
- 1.3.9 PV DISCONNECTS
- 1.3.10 PV FINAL COMMISSIONING
- 1.3.11 (E) ELECTRICAL EQUIPMENT RETROFIT FOR PV
- 1.3.12 SIGNAGE PLACED IN ACCORDANCE WITH LOCAL BUILDING CODE

SCOPE OF WORK SYSTEM SIZE: STC: 36 x 325W = 11.700 kW

MSP UPGRADE:

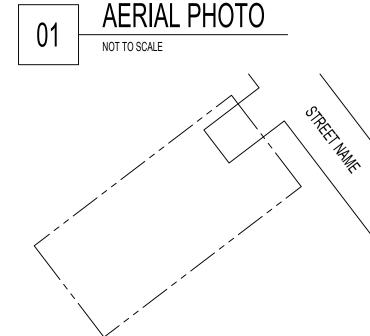
	PTC: 36 x 292.9W= 10.544 kW DC (36) PEIMAR SM325M (FB) (1) SOLAR EDGE SE11400H-US (240V)
ATTACHMENT TYPE:	IRONRIDGE FLASHFOOT2

NO

NEW PV SYSTEM: 11.700 kWp **OWNER NAME RESIDENCE**

HOME FULL ADDRESS ASSESSOR'S #:







G	Π
SHI	EET LIST
SHEET NUMBER	SHEET TITLE
T-001	COVER PAGE
G-001	NOTES
A-101	SITE PLAN
A-102	ELECTRICAL PLAN
A-103	SOLAR ATTACHMENT PLAN
S-501	ASSEMBLY DETAILS
E-601	LINE DIAGRAM
E-602	DESIGN TABLES
E-603	PLACARDS
R-001	RESOURCE DOCUMENT
R-002	RESOURCE DOCUMENT
R-003	RESOURCE DOCUMENT
R-004	RESOURCE DOCUMENT
R-005	RESOURCE DOCUMENT

OWNER NAME

PROJECT MANAGER NAME: PHONE:

CONTRACTOR NAMF: PHONE:

AUTHORITIES HAVING JURISDICTION BUILDING: ZONING: UTILITY:

DESIGN SPECIFICATIONS

OCCUPANCY: CONSTRUCTION: ZONING: GROUND SNOW LOAD: 0 PSF WIND EXPOSURE: WIND SPEED:

APPLICABLE CODES & STANDARDS BUILDING: ELECTRICAL: FIRE:

	\sim
1	

PROJECT INFORMATION

OWNER NAME

YOUR COMPANY NAME (XXX) XXX-XXXXX

SINGLE-FAMILY **RESIDENTIAL GRID-TIED** В 136 MPH

FBC 2017, FRC 2017 NEC 2014 FFPC 2017

CONTRACTOR

YOUR COMPANY NAME

PHONE: (XXX) XXX-XXXX ADDRESS:

LIC. NO.: HIC. NO .:

ELE. NO .:

UNAUTHORIZED USE OF THIS DRAWING SET WITHOUT WRITTEN PERMISSION FROM CONTRACTOR IS IN VIOLATION OF U.S. COPYRIGHT LAWS AND WILL BE SUBJECT TO CIVIL DAMAGES AND PROSECUTIONS

NEW PV SYSTEM: 11.700 kWp

OWNER NAME RESIDENCE HOME FULL ADDRESS

APN:

ENGINEER OF RECORD

PAPER SIZE: 11" x 17" (ANSI B)

COVER PAGE

DATE: XX.XX.XXXX

DESIGN BY: X.X.

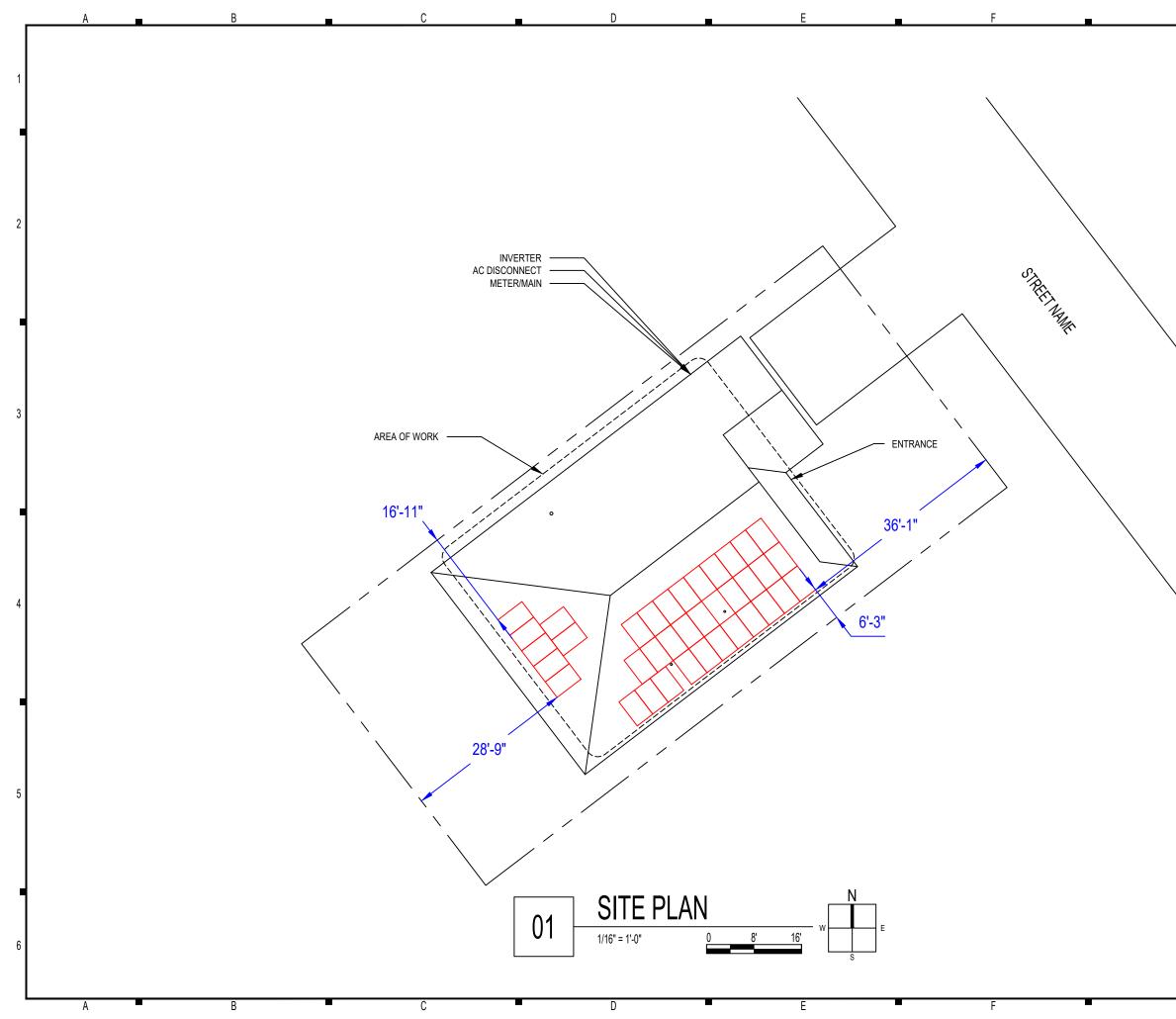
CHECKED BY: X.X.

REVISIONS

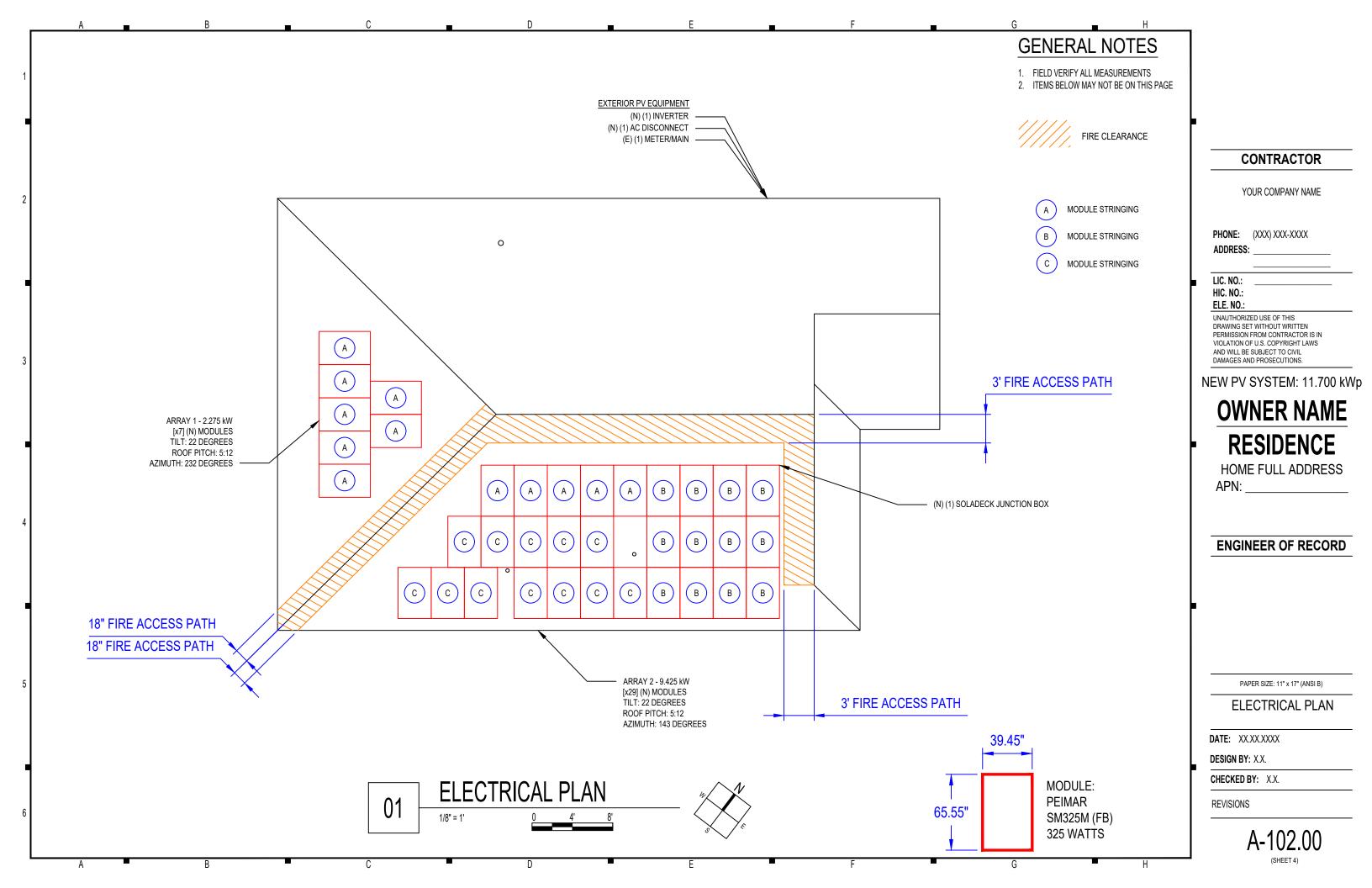
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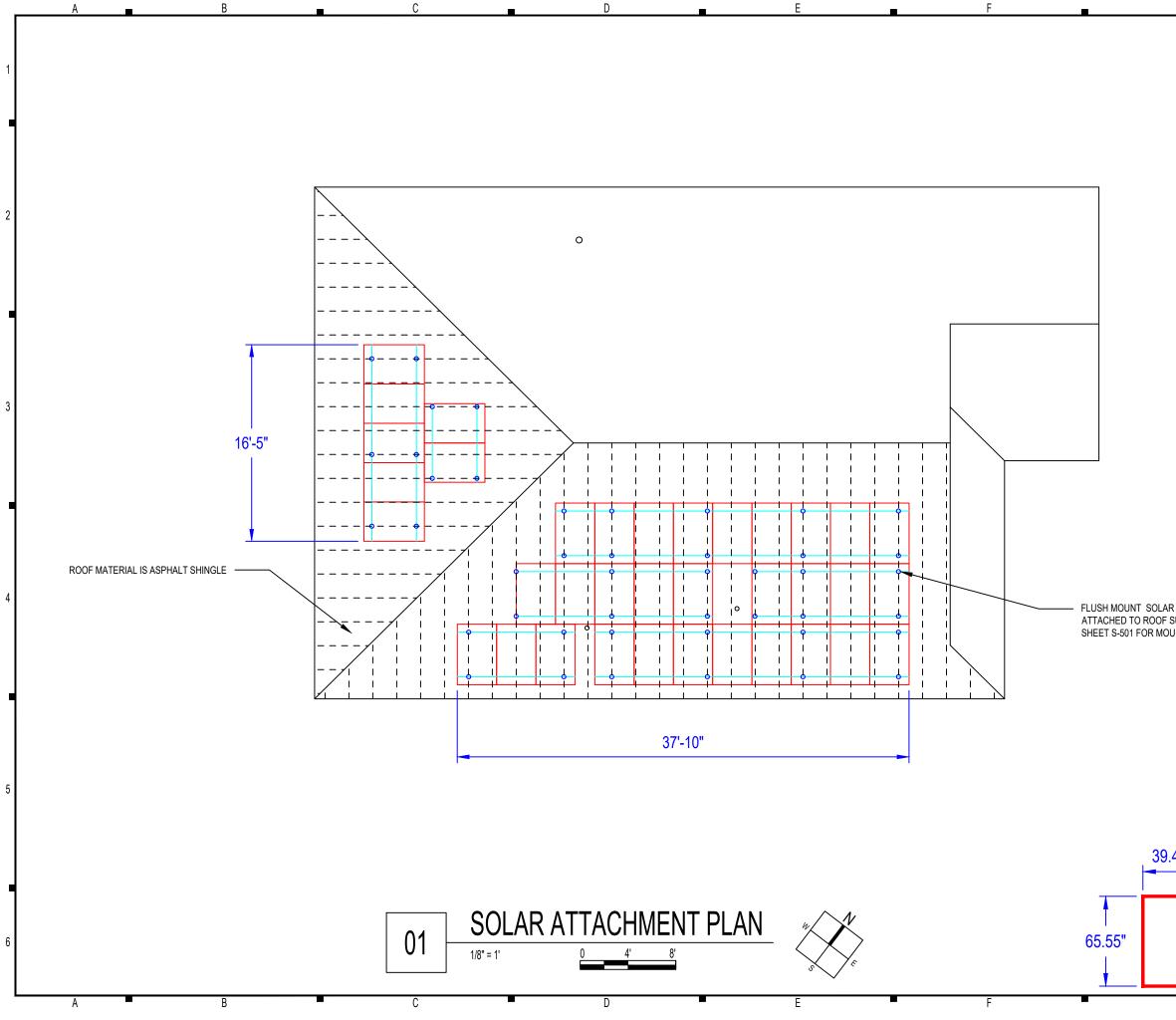
2.1.1		0.4.0		
1.1 1.2	SITE NOTES: A LADDER WILL BE IN PLACE FOR INSPECTION IN COMPLIANCE WITH OSHA	2.4.9	THE GROUNDING ELECTRODE SYSTEM COMPLIES WITH NEC 690.47 AND NEC 250.50 THROUGH 250.106. IF EXISTING SYSTEM IS INACCESSIBLE, OR INADEQUATE, A	DC POSITIVE- RED, OR OTHER COLO
	REGULATIONS.		GROUNDING ELECTRODE SYSTEM PROVIDED ACCORDING TO NEC 250, NEC 690.47	GREEN DC NEGATIVE- BLACK, OR OTHER COL
.3	THE PV MODULES ARE CONSIDERED NON-COMBUSTIBLE AND THIS SYSTEM IS A		AND AHJ.	AND GREEN
	UTILITY INTERACTIVE SYSTEM WITH NO STORAGE BATTERIES.	2.4.10	ACCORDING TO NEC 690.47 (C)(3), UNGROUNDED SYSTEMS INVERTER MAY SIZE DC 2.7.8	AC CONDUCTORS COLORED OR MARKED
1.4	THE SOLAR PV INSTALLATION WILL NOT OBSTRUCT ANY PLUMBING, MECHANICAL, OR		GEC ACCORDING TO EGC REQUIREMENTS OF NEC 250.122. HOWEVER, DC GEC TO BE	PHASE A OR L1- BLACK
_	BUILDING ROOF VENTS.		UNSPLICED OR IRREVERSIBLY SPLICED.	PHASE B OR L2- RED, OR OTHER CON
.5	PROPER ACCESS AND WORKING CLEARANCE AROUND EXISTING AND PROPOSED	2.4.11	IN UNGROUNDED INVERTERS, GROUND FAULT PROTECTION IS PROVIDED	PHASE C OR L3- BLUE, YELLOW, ORAN
.6	ELECTRICAL EQUIPMENT WILL BE PROVIDED AS PER SECTION NEC 110.26. ROOF COVERINGS SHALL BE DESIGNED, INSTALLED, AND MAINTAINED IN		BY "ISOLATION MONITOR INTERRUPTOR," AND GROUND FAULT DETECTION PERFORMED BY "RESIDUAL-CURRENT DETECTOR."	NEUTRAL- WHITE OR GREY
,	ACCORDANCE WITH THIS CODE AND THE APPROVED MANUFACTURER'S		PERFORMED BT RESIDUAL-CORRENT DETECTOR.	
	INSTRUCTIONS SUCH THAT THE ROOF COVERING SERVES TO PROTECT THE	251	INTERCONNECTION NOTES:	IN 4-WIRE DELTA CONNECTED SYSTEMS
	BUILDING OR STRUCTURE.	2.5.2	LOAD-SIDE INTERCONNECTION SHALL BE IN ACCORDANCE WITH INEC 690.64	O BE MARKED ORANGE [NEC 110.15].
			(B)]	
	EQUIPMENT LOCATIONS	2.5.3	THE SUM OF THE UTILITY OCPD AND INVERTER CONTINUOUS OUTPUT MAY	
	ALL EQUIPMENT SHALL MEET MINIMUM SETBACKS AS REQUIRED BY NEC 110.26.		NOT EXCEED 120% OF BUSBAR RATING [NEC 705.12(D)(2)(3)].	
	WIRING SYSTEMS INSTALLED IN DIRECT SUNLIGHT MUST BE RATED FOR EXPECTED OPERATING TEMPERATURE AS SPECIFIED BY NEC 690.31 (A),(C) AND NEC TABLES	2.5.4	PV DEDICATED BACKFEED BREAKERS MUST BE LOCATED OPPOSITE END OF	
	310 15 (B)(2)(A) AND 310 15 (B)(3)(C).		THE BUS FROM THE UTILITY SOURCE OCPD [NEC 705.12(D)(2)(3)].	
	JUNCTION AND PULL BOXES PERMITTED INSTALLED UNDER PV MODULES	2.5.5	AT MULTIPLE INVERTERS OUTPUT COMBINER PANEL, TOTAL RATING OF ALL	
	ACCORDING TO NEC 690.34.		OVERCURRENT DEVICES SHALL NOT EXCEED AMPACITY OF BUSBAR.	
	ADDITIONAL AC DISCONNECT(S) SHALL BE PROVIDED WHERE THE INVERTER IS NOT		HOWEVER, THE COMBINED OVERCURRENT DEVICE MAY BE EXCLUDED	
	WITHIN SIGHT OF THE AC SERVICING DISCONNECT.	256	ACCORDING TO NEC 705.12 (D)(2)(3)(C).	
	ALL EQUIPMENT SHALL BE INSTALLED ACCESSIBLE TO QUALIFIED PERSONNEL	2.3.0	FEEDER TAP INTERCONECTION (LOAD SIDE) ACCORDING TO NEC 705.12	
	ACCORDING TO NEC APPLICABLE CODES. ALL COMPONENTS ARE LISTED FOR THEIR PURPOSE AND RATED FOR OUTDOOR	257	(D)(2)(1) SUPPLY SIDE TAP INTERCONNECTION ACCORDING TO NEC 705.12 (A) WITH	
	USAGE WHEN APPROPRIATE.	2.3.1	SUPPLY SIDE TAP INTERCONNECTION ACCORDING TO NEC 705.12 (A) WITH SERVICE ENTRANCE CONDUCTORS IN ACCORDANCE WITH NEC 230.42	
		2.5.8	BACKFEEDING BREAKER FOR UTILITY-INTERACTIVE INVERTER OUTPUT IS	
	STRUCTURAL NOTES:	2.0.0	EXEMPT FROM ADDITIONAL FASTENING [NEC 705.12 (D)(5)].	
	RACKING SYSTEM & PV ARRAY WILL BE INSTALLED ACCORDING TO			
	CODE-COMPLIANT INSTALLATION MANUAL. TOP CLAMPS REQUIRE A	2.6.1	DISCONNECTION AND OVER-CURRENT PROTECTION NOTES:	
	DESIGNATED SPACE BETWEEN MODULES, AND RAILS MUST ALSO EXTEND A	2.6.2	DISCONNECTING SWITCHES SHALL BE WIRED SUCH THAT WHEN THE SWITCH	
	MINIMUM DISTANCE BEYOND EITHER EDGE OF THE ARRAY/SUBARRAY,		IS OPENED THE CONDUCTORS REMAINING ENERGIZED ARE CONNECTED TO	
	ACCORDING TO RAIL MANUFACTURER'S INSTRUCTIONS.		THE TERMINALS MARKED "LINE SIDE" (TYPICALLY THE UPPER TERMINALS).	
3	JUNCTION BOX WILL BE INSTALLED PER MANUFACTURERS' SPECIFICATIONS.	2.6.3	DISCONNECTS TO BE ACCESSIBLE TO QUALIFIED UTILITY PERSONNEL, BE	
	IF ROOF-PENETRATING TYPE, IT SHALL BE FLASHED & SEALED PER LOCAL REQUIREMENTS.		LOCKABLE, AND BE A VISIBLE-BREAK SWITCH.	
	ROOFTOP PENETRATIONS FOR PV RACEWAY WILL BE COMPLETED AND	2.6.4	BOTH POSITIVE AND NEGATIVE PV CONDUCTORS ARE UNGROUNDED.	
	SEALED W/ APPROVED CHEMICAL SEALANT PER CODE BY A LICENSED		THEREFORE BOTH MUST OPEN WHERE A DISCONNECT IS REQUIRED,	
	CONTRACTOR.	265	ACCORDING TO NEC 690.13.	
	ALL PV RELATED ROOF ATTACHMENTS TO BE SPACED NO GREATER THAN THE	2.6.5	DC DISCONNECT INTEGRATED INTO ROOFTOP DC COMBINER OR INSTALLED WITHIN 6 FT, ACCORDING TO NEC 690.15 (C).	
	SPAN DISTANCE SPECIFIED BY THE RACKING MANUFACTURER.	266	RAPID SHUTDOWN OF ENERGIZED CONDUCTORS BEYOND 10 FT OF PV ARRAY	
	WHEN POSSIBLE, ALL PV RELATED RACKING ATTACHMENTS WILL BE	2.6.6	OR 5 FT INSIDE A BUILDING WITHIN 10 SECONDS. CONTROLLED	
	STAGGERED AMONGST THE ROOF FRAMING MEMBERS.		CONDUCTORS <30V AND <240VA [NEC 690.12]. LOCATION OF LABEL	
			ACCORDING TO AHJ.	
	GROUNDING NOTES:	2.6.7	ALL OCPD RATINGS AND TYPES SPECIFIED ACCORDING TO NEC 690.8, 690.9,	
	GROUNDING SYSTEM COMPONENTS SHALL BE LISTED FOR THEIR PURPOSE, AND		AND 240.	
	GROUNDING DEVISES EXPOSED TO THE ELEMENTS SHALL BE RATED FOR SUCH	2.6.8	BOTH POSITIVE AND NEGATIVE PV CONDUCTORS ARE UNGROUNDED,	
	USE. AS IN CONVENTIONAL PV SYSTEMS, UNGROUNDED PV SYSTEMS REQUIRE AN		THEREFORE BOTH REQUIRE OVER-CURRENT PROTECTION, ACCORDING TO	
	EQUIPMENT GROUNDING CONDUCTOR. ALL METAL ELECTRICAL EQUIPMENT AND		NEC 240.21. (SEE EXCEPTION IN NEC 690.9)	
	STRUCTURAL COMPONENTS BONDED TO GROUND, IN ACCORDANCE WITH 250.134 OR	2.6.9	IF REQUIRED BY AHJ, SYSTEM WILL INCLUDE ARC-FAULT CIRCUIT PROTECTION	
	250.136(A). ONLY THE DC CONDUCTORS ARE UNGROUNDED.		ACCORDING TO NEC 690.11 AND UL1699B.	
	PV EQUIPMENT SHALL BE GROUNDED ACCORDING TO NEC 690.43 AND MINIMUM			
	NEC TABLE 250.122.	2.7.1	WIRING & CONDUIT NOTES:	
	METAL PARTS OF MODULE FRAMES, MODULE RACKING, AND ENCLOSURE	2.7.2	ALL CONDUIT AND WIRE WILL BE LISTED AND APPROVED FOR THEIR PURPOSE.	
	CONSIDERED GROUNDED IN ACCORD WITH 250.134 AND 250.136(A). EACH MODULE WILL BE GROUNDED USING WEEB GROUNDING CLIPS AS SHOWN IN		CONDUIT AND WIRE SPECIFICATIONS ARE BASED ON MINIMUM CODE	
	MANUFACTURER DOCUMENTATION AND APPROVED BY THE AHJ. IF WEEBS ARE	272	REQUIREMENTS AND ARE NOT MEANT TO LIMIT UP-SIZING.	
	NOT USED, MODULE GROUNDING LUGS MUST BE INSTALLED AT THE SPECIFIED	2.7.3 2.7.4	ALL CONDUCTORS SIZED ACCORDING TO NEC 690.8, NEC 690.7. EXPOSED UNGROUNDED PV SOURCE AND OUTPUT CIRCUITS SHALL USE WIRE	
	GROUNDING LUG HOLES PER THE MANUFACTURERS' INSTALLATION	۲.۱.4	LISTED AND IDENTIFIED AS PHOTOVOLTAIC (PV) WIRE [690.35 (D)]. PV	
	REQUIREMENTS.		MODULES WIRE LEADS SHALL BE LISTED FOR USE WITH UNGROUNDED	
	THE GROUNDING CONNECTION TO A MODULE SHALL BE ARRANGED SUCH THAT		SYSTEMS, ACCORDING TO NEC 690.35 (D)(3).	
	THE REMOVAL OF A MODULE DOES NOT INTERRUPT A GROUNDING CONDUCTOR TO	2.7.5	PV WIRE BLACK WIRE MAY BE FIELD-MARKED WHITE [NEC 200.6 (A)(6)].	
	ANOTHER MODULE.	2.7.6	MODULE WIRING SHALL BE LOCATED AND SECURED UNDER THE ARRAY.	
8	GROUNDING AND BONDING CONDUCTORS, IF INSULATED, SHALL BE COLORED GREEN OR MARKED GREEN IF #4 AWG OR LARGER [NEC 250.119]	2.7.7	ACCORDING TO NEC 200.7, UNGROUNDED SYSTEMS DC CONDUCTORS	
	GALLA ON MANALD ONLEN II #4 AWG ON LANGEN [NEC 230.118]		COLORED OR MARKED AS FOLLOWS:	
	A B C		D • E • F	- - G

G H HER COLOR EXCLUDING WHITE, GREY AND	1
HER COLOR EXCLUDING WHITE, GREY	
MARKED AS FOLLOWS:	
HER CONVENTION IF THREE PHASE W, ORANGE*, OR OTHER CONVENTION	•
SYSTEMS THE PHASE WITH HIGHER VOLTAGE 0.15].	CONTRACTOR
	YOUR COMPANY NAME
	PHONE: (XXX) XXX-XXXX ADDRESS:
	LIC. NO.: HIC. NO.: ELE. NO.:
	UNAUTHORIZED USE OF THIS DRAWING SET WITHOUT WRITTEN PERMISSION FROM CONTRACTOR IS IN VIOLATION OF U.S. COPYRIGHT LAWS AND WILL BE SUBJECT TO CIVIL DAMAGES AND PROSECUTIONS.
	NEW PV SYSTEM: 11.700 kWp
	OWNER NAME
	RESIDENCE HOME FULL ADDRESS APN:
	ENGINEER OF RECORD
	•
	 PAPER SIZE: 11" x 17" (ANSI B)
	NOTES
	DATE: XX.XX.XXXX
	DESIGN BY: X.X. CHECKED BY: X.X.
	REVISIONS
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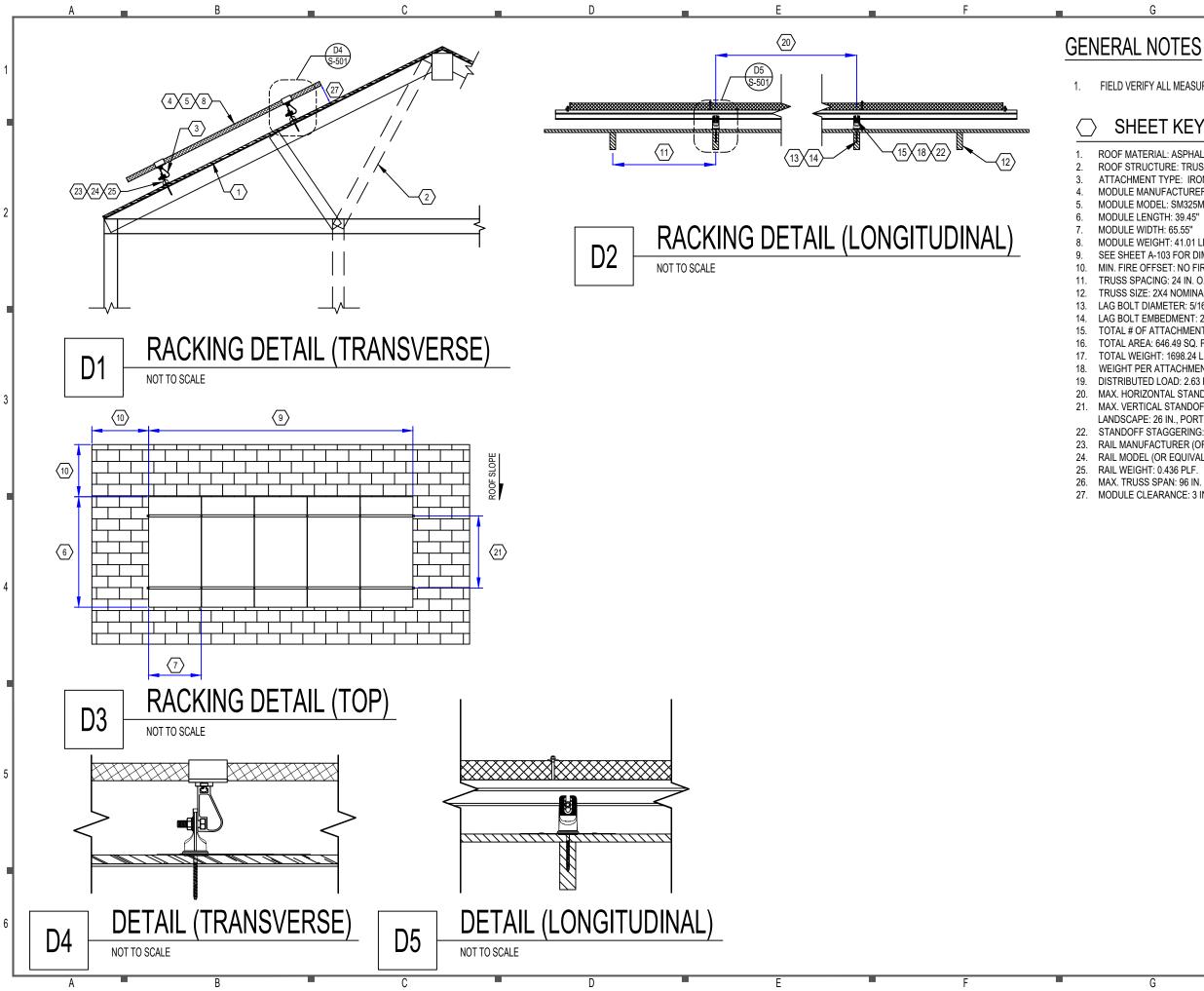


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GENERAL NOTES	
 FIELD VERIFY ALL MEASUREMENTS ITEMS BELOW MAY NOT BE ON THIS PAGE 	
PROPERTY LINE	-
	CONTRACTOR
	YOUR COMPANY NAME
	PHONE: (XXX) XXX-XXXX ADDRESS:
Υ.	LIC. NO.: HIC. NO.: ELE. NO.:
	UNAUTHORIZED USE OF THIS DRAWING SET WITHOUT WRITTEN PERMISSION FROM CONTRACTOR IS IN VIOLATION OF U.S. COPYRIGHT LAWS AND WILL BE SUBJECT TO CIVIL DAMAGES AND PROSECUTIONS.
	NEW PV SYSTEM: 11.700 kWp
	OWNER NAME
	- RESIDENCE
	HOME FULL ADDRESS
	APN:
X	
\backslash	ENGINEER OF RECORD
	•
	PAPER SIZE: 11" x 17" (ANSI B)
	SITE PLAN
	DATE: XX.XX.XXXX
	DESIGN BY: X.X. CHECKED BY: X.X.
	REVISIONS
	A-101.00
^	(SHEET 3)





G 🗖 H	-
GENERAL NOTES	
 FIELD VERIFY ALL MEASUREMENTS ITEMS BELOW MAY NOT BE ON THIS PAGE 	
— — — ROOF TRUSSES	•
	CONTRACTOR
	YOUR COMPANY NAME
	PHONE: (XXX) XXX-XXXX ADDRESS:
	LIC. NO.: HIC. NO.: ELE. NO.:
	UNAUTHORIZED USE OF THIS DRAWING SET WITHOUT WRITTEN PERMISSION FROM CONTRACTOR IS IN VIOLATION OF U.S. COPYRIGHT LAWS AND WILL BE SUBJECT TO CIVIL DAMAGES AND PROSECUTIONS.
	NEW PV SYSTEM: 11.700 kWp
	OWNER NAME
	 RESIDENCE HOME FULL ADDRESS APN:
R MODULES SURFACE (SEE UNTING DETAILS)	ENGINEER OF RECORD
	PAPER SIZE: 11" x 17" (ANSI B) SOLAR ATTACHMENT PLAN
45"	DATE: XX.XX.XXXX
	DESIGN BY: X.X. CHECKED BY: X.X.
MODULE: PEIMAR	REVISIONS
SM325M (FB) 325 WATTS	A-103.00
G H	(SHEET 5)



1. FIELD VERIFY ALL MEASUREMENTS

SHEET KEYNOTES

ROOF MATERIAL: ASPHALT SHINGLE ROOF STRUCTURE: TRUSS ATTACHMENT TYPE: IRONRIDGE FLASHFOOT2 MODULE MANUFACTURER: PEIMAR MODULE MODEL: SM325M (FB) MODULE LENGTH: 39.45" MODULE WEIGHT: 41.01 LBS. SEE SHEET A-103 FOR DIMENSION(S) MIN. FIRE OFFSET: NO FIRE CODE ENFORCED TRUSS SPACING: 24 IN. O.C. TRUSS SIZE: 2X4 NOMINAL LAG BOLT DIAMETER: 5/16 IN. LAG BOLT EMBEDMENT: 2-1/2 IN. TOTAL # OF ATTACHMENTS: 44 TOTAL AREA: 646.49 SQ. FT. TOTAL WEIGHT: 1698.24 LBS. WEIGHT PER ATTACHMENT: 38.6 LBS. DISTRIBUTED LOAD: 2.63 PSF MAX. HORIZONTAL STANDOFF: 96 IN. MAX. VERTICAL STANDOFF: LANDSCAPE: 26 IN., PORTRAIT: 39 IN. STANDOFF STAGGERING: NO RAIL MANUFACTURER (OR EQUIV.): IRONRIDGE RAIL MODEL (OR EQUIVALENT): XR10 MAX. TRUSS SPAN: 96 IN.

27. MODULE CLEARANCE: 3 IN. MIN., 6 IN. MAX.

CONTRACTOR

YOUR COMPANY NAME

PHONE: (XXX) XXX-XXXX ADDRESS:

LIC. NO .: HIC. NO .: ELE. NO .:

UNAUTHORIZED USE OF THIS DRAWING SET WITHOUT WRITTEN PERMISSION FROM CONTRACTOR IS IN VIOLATION OF U.S. COPYRIGHT LAWS AND WILL BE SUBJECT TO CIVIL DAMAGES AND PROSECUTIONS.

NEW PV SYSTEM: 11.700 kWp

OWNER NAME RESIDENCE HOME FULL ADDRESS

APN:

ENGINEER OF RECORD

PAPER SIZE: 11" x 17" (ANSI B)

ASSEMBLY DETAILS

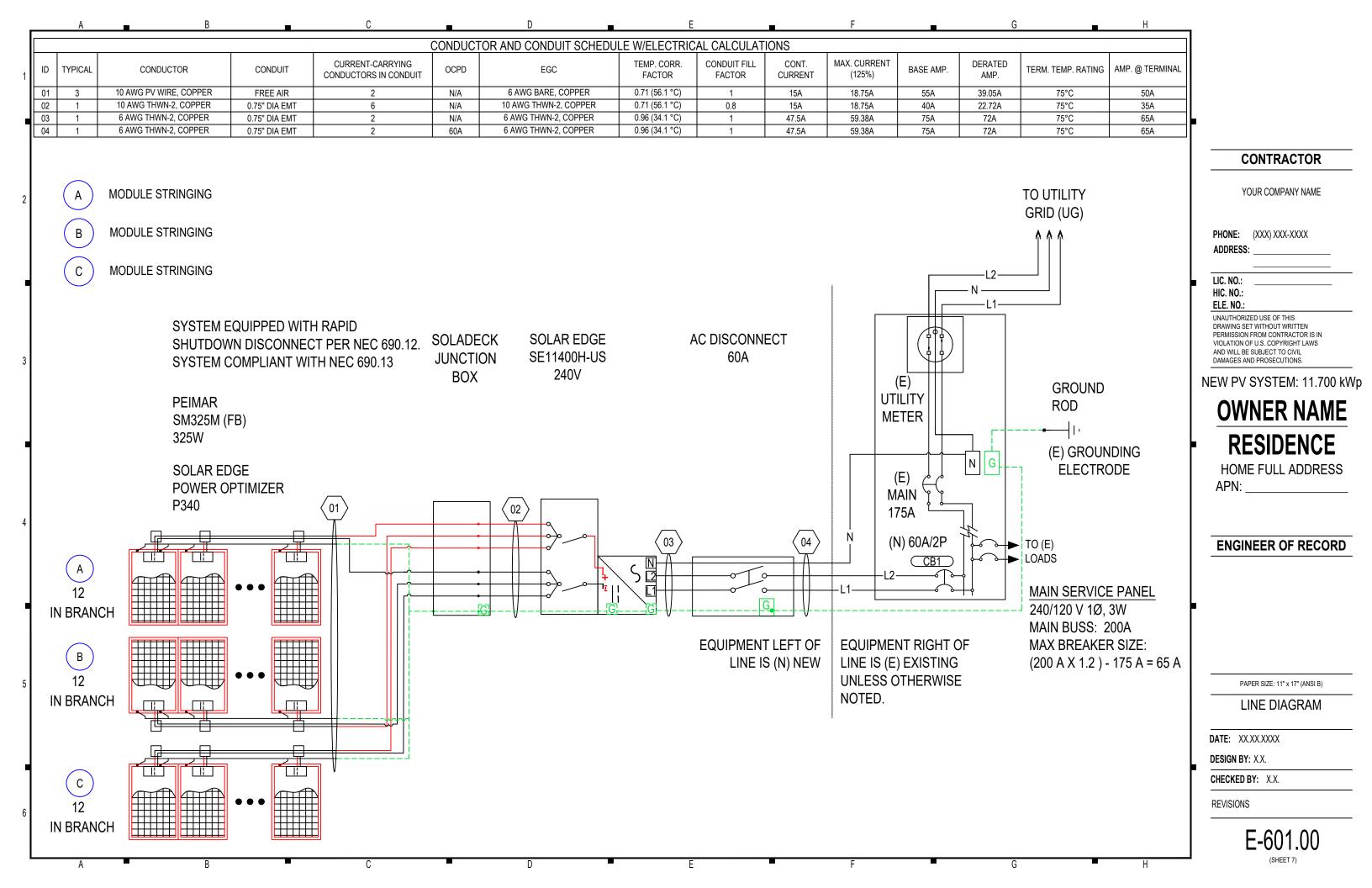
DATE: XX.XX.XXXX

DESIGN BY: X.X.

CHECKED BY: X.X.

REVISIONS

S-501.00 (SHEET 6)



STRING #1 POWERBOX MAX OUTPUT CURRENT 15A OPTIMIZERS IN SERIES 12 NOMINAL STRING VOLTAGE 400V ARRAY OPERATING CURRENT 9.75A ARRAY PTC POWER ARRAY TC POWER MAX AC CURRENT MAX AC POWER MAX AC CURRENT DERATED (CEC) AC POWER DERATED (CEC) AC POWER DERATED (CEC) AC POWER MODULE PEIMAR INVERTER SOLAR EDC MODULE PEIMAR INVERTER SOLAR EDC DISCONNECT SQUARE E WIRING WIRING	15A 12 400V 9.75A 9 11,700W 10,544W 47.5A 11,400W 10,313W 10,313W GE SGE SE11 GE D GEN-10-A GEN-10-A GEN-10-A GEN-10-A GEN-10-A	STRING #3 F 15A 12 400V 9.75A F 	PM1-36 3 REF. Q PO1-36 3 REF. Q I1 1 REF. Q SW1 1 ASHRAE EXTR ASHRAE Z ASHRAE E PO1-36 1 PO1-36 3 PO1-36 3	2% HIGH 2% HIGH B REF PM1-36 I1 PO1-36 SW1 WR1 WR1 WR1 WR2	SOLAR M SOLAR EI MAKE SQUARE D D	ATERIALS OUNIT PIECES PIECE PIECE FEET FEET AND MODEL OUNIT	1325M (FB) DDEL DH-US (240V ONNECT EQUIV.), SOURCE:	I RATED INP 34(34(0V) CTS RATED C 60 E: ORLANDO\JET E: ORLANDO\JET E: ORLANDO\JET I PEIMAR 1 SOLAR 1 SOLAR	IPUT POWER 340W INV AC VOLTAGE 240V F CURRENT M 60A CURRENT M 60A M CURRENT M 60A M CURRENT M 60A M CURRENT M 60A M CURRENT M 60A M CURRENT M 60A M CURRENT CURRENT C	292.9W 292.9W 292.9W AX 0UTPU MAX OUTPU 15 VVERTERS GROUND FLOATING FLOATING MAX RATED VO 240VAC 3°; -81.33°) 3°; -81.33°) 3°; -81.33°) B) 325W 60 CELI 400H-US (240V) OPTIMIZER (REC	V 10.08A ZERS UT CURRENT 5A OCPD F RATING P 60A 1 VOLTAGE VOLTAGE C LLS, MONOCR) 11400W INVE	RATED POWER 11400W REF. CB1 CB1 EXYSTALLINE ERTER	41.67V 34 IPUT ISC 14 1A 14 MAX OUTPUT CURRENT 47.5A 47.5A QTY. 1 1 1 SCRIPTION SILICON STER'S DISTRIBUTE	MAX DC VOLTA 48V MAX INPUT CURRENT 30.5A OCPE RATED CURREI 60A	MAX INPUT VOLTAGE 480V	5/°C) 15A EIGHTED EFFICIE! 98.8%	A ENCY HTED ICY PHO ADD E ILIC. HIC. ELE. UNAU DRAW PERM VIOL AND NEW O H	CONTRACTOR YOUR COMPANY NAME ONE: (XXX) XXX-XXXX DRESS:
POWERBOX MAX OUTPUT CURRENT 15A DPTIMIZERS IN SERIES 12 NOMINAL STRING VOLTAGE 400V ARRAY OPERATING CURRENT 9.75A ARRAY STC POWER 400V ARRAY DTC POWER 400V ARRAY CURRENT 9.75A MAX AC CURRENT 9.75A MAX AC CURRENT 400V MAX AC COURENT 400V MAX AC POWER 400V DERATED (CEC) AC POWER 400V DERATER SOLAR EDC MODULE OPTIMIZER SOLAR EDC MODULE OPTIMIZER SOLAR EDC DISCONNECT SQUARE E WIRING 400V WIRING 400C	15A 12 400V 9.75A 9 11,700W 10,544W 47.5A 11,400W 10,313W 10,313W GE SGE SE11 GE D GEN-10-A GEN-10-A GEN-10-A GEN-10-A GEN-10-A	15A 12 400V 9.75A F SM325M (FB) E11400H-US (240V) P340 D222NRB -10-AWG-PV-WIRE-CU EN-G-AWG-BARE-CU 0-AWG-THWN-2-CU-RD 0-AWG-THWN-2-CU-BLK	REF. Q PO1-36 3 REF. Q II 4 REF. Q SW1 4 ASHRAE EXTR ASHRAE 29 ASHRAE 29 F F F F F F	QTY. 36 QTY. 1 QTY. 1 TREME LOW 2% HIGH TREME LOW 2% HIGH B REF PM1-36 I1 PO1-36 SW1 WR1 WR1 WR2	SOLAR M SOLAR EI MAKE SQUARE D D SQUARE D SQUARE D D SQUARE D SQUARE	MODEL AR EDGE P340 MAKE AND MOD EDGE SE11400H DISCC (E AND MODEL D222NRB OR EC -3.7°C (25.3°F), 34.1°C (93.4°F), 34.1°C (93.4°F), ATERIALS UNIT PIECES PIECE PIECE PIECE FEET FEET FEET	DDEL DH-US (240V ONNECT EQUIV.), SOURCE:), SOURCE:	I RATED INP 34(34(0V) CTS RATED C 60 E: ORLANDO\JET E: ORLANDO\JET E: ORLANDO\JET I PEIMAR 1 SOLAR 1 SOLAR	POWER IPUT POWER IPUT POWER INV AC VOLTAGE 240V F CURRENT M 60A ETPORT (28.43°; ETPORT (28.43°; ETPORT (28.43°; ETPORT (28.43°; ETPORT (28.43°; ETPORT (28.43°; ETPORT (28.43°; ETPORT (28.43°; ETPORT (28.43°;	R OPTIMIZE MAX OUTPU 15 IVERTERS GROUND FLOATING MAX RATED V(240VAC) 3°; -81.33°) 3°; -81.33°) 3°; -81.33°) B) 325W 60 CELI 400H-US (240V) OPTIMIZER (REC	ZERS UT CURRENT 5A OCPD F RATING P 60A 1 VOLTAGE C VOLTAGE C	MAX IN RATED POWER 11400W REF. CB1 CB1 EXISTALLINE RTER	IPUT ISC 1A MAX OUTPUT CURRENT 47.5A QTY. 1 1 SCRIPTION SILICON TER'S DISTRIBU	MAX DC VOLTA 48V MAX INPUT CURRENT 30.5A OCPE RATED CURREI 60A	AGE WE	EIGHTED EFFICIEN 98.8% CEC WEIGH EFFICIENC 99.0% MAX VOLTAGE	ENCY HTED ICY PHO ADD E E E E E E E E E E E E E E E E E E	YOUR COMPANY NAME ONE: (XXX) XXX-XXXX DRESS:
DPTIMIZERS IN SERIES 12 NOMINAL STRING VOLTAGE 400V ARRAY OPERATING CURRENT 9.75A ARRAY STC POWER	12 400V 4 9.75A 9 11,700W 10,544W 47.5A 11,400W 10,313W 10,313W 0 8 S S 9 GE SE11 10GE 0 0 10 GEN-10-A GEN-10-A 10 GEN-10-A GEN-10-A 10 GEN-10-A GEN-10-A 10 GEN-10-A GEN-10-A	12 400V 9.75A F SM325M F SM325M	PO1-36 3 REF. Q I1 REF. Q SW1 ASHRAE EXTR ASHRAE EXTR ASHRAE EXTR ASHRAE EXTR ASHRAE F - -	36 QTY. 1 1 TREME LOW 2% HIGH TREME LOW 2% HIGH B REF PM1-36 I1 PO1-36 SW1 WR1 WR1 WR1 WR2	SOLAR M SOLAR EI MAKE SQUARE D D SQUARE D SQUARE D D SQUARE D SQUARE	AR EDGE P340 MAKE AND MOD EDGE SE11400H DISCC (E AND MODEL D222NRB OR EC D222NRB OR EC -3.7°C (25.3°F), 34.1°C (93.4°F), 34.1°C (93.4°F), 91ECES PIECES PIECES PIECE FEET FEET FEET	ONNEC ONNEC EQUIV.), SOURCE:), SOURCE:	34(DV) CTS RATED C 60 E: ORLANDO\JET E: ORLANDO\JET I PEIMAR 1 SOLAR 1 SOLAR	IPUT POWER 340W INV AC VOLTAGE 240V F CURRENT M 60A CURRENT M 60A M CURRENT M 60A M CURRENT M 60A M CURRENT M 60A M CURRENT M 60A M CURRENT M 60A M CURRENT CURRENT C	MAX OUTPU 15 IVERTERS GROUND FLOATING MAX RATED VO 240VAC 3°; -81.33°) 3°; -81.33°) 3°; -81.33°) B) 325W 60 CELI 400H-US (240V) OPTIMIZER (REC	UT CURRENT 5A OCPD F RATING P 60A 1 VOLTAGE VOLTAGE VOLTAGE VOLTAGE VOLTAGE VOLTAGE VOLTAGE VOLTAGE	RATED POWER 11400W REF. CB1 CB1 EXYSTALLINE ERTER	1A MAX OUTPUT CURRENT 47.5A QTY. 1 1 SCRIPTION SILICON	48V MAX INPUT CURRENT 30.5A OCPE RATED CURREI 60A	MAX INPUT VOLTAGE 480V	98.8% CEC WEIGH EFFICIENC 99.0% MAX VOLTAGE	HTED ICY PHO ADD E E ILIC. HIC. ELE. UNAU DRAW PERM VIOLA AND DAMA NEW O MEW	YOUR COMPANY NAME ONE: (XXX) XXX-XXXX DRESS:
VOMINAL STRING VOLTAGE 400V ARRAY OPERATING CURRENT 9.75A ARRAY STC POWER ARRAY PTC POWER MAX AC CURRENT MAX AC POWER DERATED (CEC) AC POWER DERATED (CEC) AC POWER DERATED (CEC) AC POWER DERATED (CEC) AC POWER MODULE OPTIMIZER MODULE PEIMAR INVERTER SOLAR EDC MODULE OPTIMIZER SOLAR EDC DISCONNECT SQUARE D WIRING WI	400V 4 9.75A 9 11,700W 10,544W 47.5A 11,400W 10,313W 10,313W MO R S IGE SE11 IGE SE11 IGE SE11 IGE GEN-10-A GEN-10-A GEN-10-A GEN-10-A	400V 9.75A 9.75A F 9.75A F 9.75A F 9.75A F 9.75A F F 9.75A F 9.75A F F 9.75A F F 9.75A F F F F F F F F F F F F F	PO1-36 3 REF. Q I1 REF. Q SW1 ASHRAE EXTR ASHRAE EXTR ASHRAE EXTR ASHRAE EXTR ASHRAE F - -	36 QTY. 1 1 TREME LOW 2% HIGH TREME LOW 2% HIGH B REF PM1-36 I1 PO1-36 SW1 WR1 WR1 WR1 WR2	SOLAR M SOLAR EI MAKE SQUARE D D SQUARE D SQUARE D D SQUARE D SQUARE	AR EDGE P340 MAKE AND MOD EDGE SE11400H DISCC (E AND MODEL D222NRB OR EC D222NRB OR EC -3.7°C (25.3°F), 34.1°C (93.4°F), 34.1°C (93.4°F), 91ECES PIECES PIECES PIECE FEET FEET FEET	ONNEC ONNEC EQUIV.), SOURCE:), SOURCE:	34(DV) CTS RATED C 60 E: ORLANDO\JET E: ORLANDO\JET I PEIMAR 1 SOLAR 1 SOLAR	IPUT POWER 340W INV AC VOLTAGE 240V F CURRENT M 60A CURRENT M 60A M CURRENT M 60A M CURRENT M 60A M CURRENT M 60A M CURRENT M 60A M CURRENT M 60A M CURRENT CURRENT C	MAX OUTPU 15 IVERTERS GROUND FLOATING MAX RATED VO 240VAC 3°; -81.33°) 3°; -81.33°) 3°; -81.33°) B) 325W 60 CELI 400H-US (240V) OPTIMIZER (REC	UT CURRENT 5A OCPD F RATING P 60A 1 VOLTAGE VOLTAGE VOLTAGE VOLTAGE VOLTAGE VOLTAGE VOLTAGE VOLTAGE	RATED POWER 11400W REF. CB1 CB1 EXYSTALLINE ERTER	1A MAX OUTPUT CURRENT 47.5A QTY. 1 1 SCRIPTION SILICON	48V MAX INPUT CURRENT 30.5A OCPE RATED CURREI 60A	MAX INPUT VOLTAGE 480V	98.8% CEC WEIGH EFFICIENC 99.0% MAX VOLTAGE	HTED ICY PHO ADD E E ILIC. HIC. ELE. UNAU DRAW PERM VIOLA AND DAMA NEW O MEW	YOUR COMPANY NAME ONE: (XXX) XXX-XXXX DRESS:
IRRAY OPERATING CURRENT 9.75A IRRAY STC POWER IRRAY PTC POWER IAX AC CURRENT IAX AC POWER IAX AC POWER IERATED (CEC) AC POWER IERATED (CEC) IERATED (CEC) AC POWER IERATED (CEC) AC POWER IERATED (CEC)	9.75A 9 11,700W 10,544W 47.5A 11,400W 10,313W 10,313W MO 8 0GE SE11 0GE SE11 0GE SE11 0GE GEN-10-A GEN-10-A GEN-10-A GEN-10-A	9.75A 9.75A F MODEL NUMBER SM325M (FB) E11400H-US (240V) P340 D222NRB -10-AWG-PV-WIRE-CU N-6-AWG-BARE-CU 0-AWG-THWN-2-CU-RD D-AWG-THWN-2-CU-BLK	PO1-36 3 REF. Q I1 REF. Q SW1 ASHRAE EXTR ASHRAE EXTR ASHRAE EXTR ASHRAE EXTR ASHRAE F - -	36 QTY. 1 1 TREME LOW 2% HIGH TREME LOW 2% HIGH B REF PM1-36 I1 PO1-36 SW1 WR1 WR1 WR1 WR2	SOLAR M SOLAR EI MAKE SQUARE D D SQUARE D SQUARE D D SQUARE D SQUARE	AR EDGE P340 MAKE AND MOD EDGE SE11400H DISCC (E AND MODEL D222NRB OR EC D222NRB OR EC -3.7°C (25.3°F), 34.1°C (93.4°F), 34.1°C (93.4°F), 91ECES PIECES PIECES PIECE FEET FEET FEET	ONNEC ONNEC EQUIV.), SOURCE:), SOURCE:	34(DV) CTS RATED C 60 E: ORLANDO\JET E: ORLANDO\JET I PEIMAR 1 SOLAR 1 SOLAR	INV AC (1) VOLTAGE (1) 240V F 240V F CURRENT M 60A 2 ETPORT (28.43°; 2 FFORT (28.43°; 2 AR SM325M (FB) R EDGE SE11400 R EDGE P340 OF 7	15 GROUND FLOATING MAX RATED V(240VAC 3°; -81.33°) 3°; -81.33°) 3°; -81.33°) B) 325W 60 CELI 400H-US (240V) OPTIMIZER (REC	OCPD F RATING P 60A 1 VOLTAGE C LLS, MONOCR 11400W INVE	RATED POWER 11400W REF. CB1 CB1 EXYSTALLINE ERTER	1A MAX OUTPUT CURRENT 47.5A QTY. 1 1 SCRIPTION SILICON	48V MAX INPUT CURRENT 30.5A OCPE RATED CURREI 60A	MAX INPUT VOLTAGE 480V	98.8% CEC WEIGH EFFICIENC 99.0% MAX VOLTAGE	HTED ICY PHO ADD E E ILIC. HIC. ELE. UNAU DRAW PERM VIOLA AND DAMA NEW O MEW	YOUR COMPANY NAME ONE: (XXX) XXX-XXXX DRESS:
ARRAY STC POWER ARRAY PTC POWER MAX AC CURRENT MAX AC POWER DERATED (CEC) AC POWER DERATED	11,700W 10,544W 47.5A 11,400W 10,313W 10,313W MO 8 10,313W	MODEL NUMBER SM325M (FB) E11400H-US (240V) P340 D222NRB -10-AWG-PV-WIRE-CU EN-6-AWG-BARE-CU 0-AWG-THWN-2-CU-RD D-AWG-THWN-2-CU-BLK	REF. Q II REF. Q SW1 ASHRAE EXTR ASHRAE 2% ASHRAE 2% F F F F F D	QTY. 1 QTY. 1 TREME LOW 2% HIGH TREME LOW 2% HIGH B REF PM1-36 I1 PO1-36 SW1 WR1 WR1 WR2	M SOLAR EI MAKE SQUARE D D SQUARE D D 30 30 1 36 1 36 1 36 1 1 36 1 1 36 1 1 36 1 1 36 1 1 35	MAKE AND MOD EDGE SE11400H DISCC (E AND MODEL D222NRB OR EC -3.7°C (25.3°F), 34.1°C (93.4°F), 34.1°C (93.4°F), 91ECES PIECES PIECES PIECE FIECE FIECE FIECE FIECE FIECE	ONNEC ONNEC EQUIV.), SOURCE:), SOURCE:	ZTS RATED C 60 E: ORLANDO\JET E: ORLANDO\JET I PEIMAR 1 SOLAR 1 SOLAR	INV AC (VOLTAGE (240V F CURRENT N 60A (ETPORT (28.43°; ETPORT (28.43°; R EDGE SE11400 R EDGE SE11400 R EDGE P340 OF	IVERTERS GROUND FLOATING FLOATING MAX RATED V(240VAC) 3°; -81.33°) 3°; -81.33°) 3°; -81.33°) B) 325W 60 CELI 400H-US (240V) OPTIMIZER (REC	OCPD F RATING P 60A 1 VOLTAGE C LLS, MONOCR 11400W INVE	RATED POWER 11400W REF. CB1 CB1 DE: RYSTALLINE RTER	MAX OUTPUT CURRENT 47.5A QTY. 1 1 SCRIPTION SILICON	MAX INPUT CURRENT 30.5A OCPE RATED CURREI 60A	VOLTAGE 480V	CEC WEIGH EFFICIENC 99.0% MAX VOLTAGE	ICY PHO ADD E LIC. HIC. ELE. UNAU DRAW PERM VIOLA AND DAMA NEW O DAMA	YOUR COMPANY NAME ONE: (XXX) XXX-XXXX DRESS:
IRRAY PTC POWER IAX AC CURRENT IAX AC POWER ERATED (CEC) AC POWER ERATED (CEC) AC POWER MODULE MODULE PEIMAR INVERTER SOLAR EDC MODULE OPTIMIZER SOLAR EDC DISCONNECT SQUARE E WIRING	47.5A 11,400W 10,313W MO S MO MO S MO S MO S MO MO S MO S MO S MO MO S MO MO S MO S MO MO S MO MO MO S MO MO MO S MO MO MO S MO MO MO MO S MO MO MO MO MO MO MO MO MO MO	MODEL NUMBER SM325M (FB) E11400H-US (240V) P340 D222NRB -10-AWG-PV-WIRE-CU EN-6-AWG-BARE-CU 0-AWG-THWN-2-CU-RD D-AWG-THWN-2-CU-BLK	II Q REF. Q SW1 ASHRAE EXTR ASHRAE 2% ASHRAE 2% F F F F F C C C	1 QTY. 1 2% HIGH 2% HIGH 2% HIGH 2% HIGH 8 8 8 8 8 8 8 9 M1-36 11 PO1-36 5 8 W1 WR1 WR1 WR2	SOLAR EI MAKE SQUARE D D SQUARE D D O SQUARE D D SQUARE D D O SQUARE D D D D D D D O SQUARE D D D D D D D D D D D D D D D	EDGE SE11400H DISCC (E AND MODEL D222NRB OR EC -3.7°C (25.3°F), 34.1°C (93.4°F), 34.1°C (93.4°F), ATERIALS UNIT PIECES PIECE PIECE PIECE FEET FEET FEET	ONNEC ONNEC EQUIV.), SOURCE:), SOURCE:	DV) CTS RATED C 60 E: ORLANDO\JET E: ORLANDO\JET 1 PEIMAR 1 SOLAR 1 SOLAR	AC VOLTAGE 240V F CURRENT M 60A ETPORT (28.43°; ETPORT (28.43°; ETPORT (28.43°; R EDGE SE11400 R EDGE SE11400 R EDGE P340 OF	GROUND FLOATING MAX RATED V(240VAC 3°; -81.33°) 3°; -81.33°) B) 325W 60 CELI 400H-US (240V) OPTIMIZER (REC	OCPD F RATING P 60A 1 VOLTAGE C LLS, MONOCR 11400W INVE	POWER 11400W REF. CB1 DE: PYSTALLINE ERTER	CURRENT 47.5A QTY. 1 1 SCRIPTION SILICON	CURRENT 30.5A OCPE RATED CURREI 60A	VOLTAGE 480V	EFFICIENC 99.0% MAX VOLTAGE	ICY PHO ADD E LIC. HIC. ELE. UNAU DRAW PERM VIOLA AND DAMA NEW O DAMA	ONE: (XXX) XXX-XXXX DRESS:
AX AC POWER ERATED (CEC) AC POWER ERATED (CEC) AC POWER CATEGORY MAKE MODULE PEIMAR INVERTER SOLAR EDC MODULE OPTIMIZER SOLAR EDC MODULE OPTIMIZER SOLAR EDC DISCONNECT SQUARE I WIRING	11,400W 10,313W 10,313W MO 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	MODEL NUMBER SM325M (FB) E11400H-US (240V) P340 D222NRB -10-AWG-PV-WIRE-CU EN-6-AWG-BARE-CU 0-AWG-THWN-2-CU-RD D-AWG-THWN-2-CU-BLK	II Q REF. Q SW1 ASHRAE EXTR ASHRAE 2% ASHRAE 2% F F F F F C C C	1 QTY. 1 2% HIGH 2% HIGH 2% HIGH 2% HIGH 8 8 8 8 8 8 8 9 M1-36 11 PO1-36 5 8 W1 WR1 WR1 WR2	SOLAR EI MAKE SQUARE D D SQUARE D D O SQUARE D D SQUARE D D O SQUARE D D D D D D D O SQUARE D D D D D D D D D D D D D D D	EDGE SE11400H DISCC (E AND MODEL D222NRB OR EC -3.7°C (25.3°F), 34.1°C (93.4°F), 34.1°C (93.4°F), ATERIALS UNIT PIECES PIECE PIECE PIECE FEET FEET FEET	ONNEC ONNEC EQUIV.), SOURCE:), SOURCE:	DV) CTS RATED C 60 E: ORLANDO\JET E: ORLANDO\JET 1 PEIMAR 1 SOLAR 1 SOLAR	AC VOLTAGE 240V F CURRENT M 60A ETPORT (28.43°; ETPORT (28.43°; ETPORT (28.43°; R EDGE SE11400 R EDGE SE11400 R EDGE P340 OF	GROUND FLOATING MAX RATED V(240VAC 3°; -81.33°) 3°; -81.33°) B) 325W 60 CELI 400H-US (240V) OPTIMIZER (REC	OCPD F RATING P 60A 1 VOLTAGE C LLS, MONOCR 11400W INVE	POWER 11400W REF. CB1 DE: PYSTALLINE ERTER	CURRENT 47.5A QTY. 1 1 SCRIPTION SILICON	CURRENT 30.5A OCPE RATED CURREI 60A	VOLTAGE 480V	EFFICIENC 99.0% MAX VOLTAGE	ICY PHO ADD E LIC. HIC. ELE. UNAU DRAW PERM VIOLA AND DAMA NEW O DAMA	ONE: (XXX) XXX-XXXX DRESS:
ERATED (CEC) AC POWER CATEGORY MAKE CATEGORY MAKE MODULE PEIMAR INVERTER SOLAR EDC MODULE OPTIMIZER SOLAR EDC DISCONNECT SQUARE D UISCONNECT SQU	10,313W 10,313W MO S MO MO S MO S MO S MO S MO S MO S MO S MO S MO MO S MO	MODEL NUMBER SM325M (FB) E11400H-US (240V) P340 D222NRB -10-AWG-PV-WIRE-CU EN-6-AWG-BARE-CU 0-AWG-THWN-2-CU-RD D-AWG-THWN-2-CU-BLK	II Q REF. Q SW1 ASHRAE EXTR ASHRAE 2% ASHRAE 2% F F F F F C C C	1 QTY. 1 2% HIGH 2% HIGH 2% HIGH 2% HIGH 8 8 8 8 8 8 8 9 M1-36 11 PO1-36 5 8 W1 WR1 WR1 WR2	SOLAR EI MAKE SQUARE D D SQUARE D D O SQUARE D D SQUARE D D O SQUARE D D D D D D D O SQUARE D D D D D D D D D D D D D D D	EDGE SE11400H DISCC (E AND MODEL D222NRB OR EC -3.7°C (25.3°F), 34.1°C (93.4°F), 34.1°C (93.4°F), ATERIALS UNIT PIECES PIECE PIECE PIECE FEET FEET FEET	ONNEC ONNEC EQUIV.), SOURCE:), SOURCE:	DV) CTS RATED C 60 E: ORLANDO\JET E: ORLANDO\JET 1 PEIMAR 1 SOLAR 1 SOLAR	AC VOLTAGE 240V F CURRENT M 60A ETPORT (28.43°; ETPORT (28.43°; ETPORT (28.43°; R EDGE SE11400 R EDGE SE11400 R EDGE P340 OF	GROUND FLOATING MAX RATED V(240VAC 3°; -81.33°) 3°; -81.33°) B) 325W 60 CELI 400H-US (240V) OPTIMIZER (REC	OCPD F RATING P 60A 1 VOLTAGE C LLS, MONOCR 11400W INVE	POWER 11400W REF. CB1 DE: PYSTALLINE ERTER	CURRENT 47.5A QTY. 1 1 SCRIPTION SILICON	CURRENT 30.5A OCPE RATED CURREI 60A	VOLTAGE 480V	EFFICIENC 99.0% MAX VOLTAGE	ICY PHO ADD E LIC. HIC. ELE. UNAU DRAW PERM VIOLA AND DAMA NEW O DAMA	DRESS:
CATEGORY MAKE MODULE PEIMAR INVERTER SOLAR EDG MODULE OPTIMIZER SOLAR EDG MODULE OPTIMIZER SOLAR EDG DISCONNECT SQUARE I WIRING	MO 8 MO 9GE SE11 9GE 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	MODEL NUMBER SM325M (FB) E11400H-US (240V) P340 D222NRB -10-AWG-PV-WIRE-CU EN-6-AWG-BARE-CU 0-AWG-THWN-2-CU-RD D-AWG-THWN-2-CU-BLK	II Q REF. Q SW1 ASHRAE EXTR ASHRAE 2% ASHRAE 2% F F F F F C C	1 QTY. 1 2% HIGH 2% HIGH 2% HIGH 2% HIGH 8 8 8 8 8 8 8 9 M1-36 11 PO1-36 5 8 W1 WR1 WR1 WR2	SOLAR EI MAKE SQUARE D D SQUARE D D O SQUARE D D SQUARE D D O SQUARE D D D D D D D O SQUARE D D D D D D D D D D D D D D D	EDGE SE11400H DISCC (E AND MODEL D222NRB OR EC -3.7°C (25.3°F), 34.1°C (93.4°F), 34.1°C (93.4°F), ATERIALS UNIT PIECES PIECE PIECE PIECE FEET FEET FEET	ONNEC ONNEC EQUIV.), SOURCE:), SOURCE:	DV) CTS RATED C 60 E: ORLANDO\JET E: ORLANDO\JET 1 PEIMAR 1 SOLAR 1 SOLAR	VOLTAGE 240V F CURRENT M 60A - ETPORT (28.43°; - AR SM325M (FB) - R EDGE SE11400 R R EDGE P340 OF -	FLOATING MAX RATED V(240VAC 3°; -81.33°) 3°; -81.33°) 3°; -81.33°) B) 325W 60 CELI 400H-US (240V) OPTIMIZER (REC	60A 1 VOLTAGE C LLS, MONOCR 11400W INVE	TI400W REF. CB1 DE: PYSTALLINE RYSTALLINE	47.5A QTY. 1 SCRIPTION SILICON	30.5A OCPI RATED CURREI 60A		99.0% MAX VOLTAGE	E PHO ADD E LIC. HIC. ELE. UNAU DRAW PERM VIOLA AND DAMA NEW O DAMA	DRESS:
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WIRING WIRING WIRING WIRING WIRING WIREWAY OCPD GENERIC MANUFA	GEN-10-A GEN-10-A	0-AWG-THWN-2-CU-BLK				FEET	$\frac{1}{1}$		G THWN-2, COP								——	
WIRING WIRING WIRING WIRING WIREWAY OCPD GENERIC MANUFA	GEN-10-A		· · · ·	WR2	60	FEET	1 1		G THWN-2, COP								— —	
WIRING WIRING WIRING WIREWAY OCPD GENERIC MANUFA		J-AWG-THWN-Z-CO-GR	२	WR2	20	FEET	1_1	1 10 AWG	/G THWN-2, COP	OPPER, GREEN	N (GROUND)						13 I	NGINEER OF RECO
WIRING WIRING WIRING WIREWAY OCPD GENERIC MANUFA		6-AWG-THWN-2-CU-RD)	WR3-4	20	FEET	1	1 6 AWG ⁻	G THWN-2, COPF	PPER, RED (LIN	NE 1)						— I —	
WIRING WIREWAY OCPD GENERIC MANUFA		-AWG-THWN-2-CU-BLK		WR3-4	20	FEET	1		G THWN-2, COPF									
WIREWAY OCPD GENERIC MANUFA		6-AWG-THWN-2-CU-WH		WR3-4	20	FEET	1		G THWN-2, COPF									
OCPD GENERIC MANUFA		6-AWG-THWN-2-CU-GR		WR3-4	20	FEET			G THWN-2, COPF		(GROUND)							
		SEN-EMT-0.75" DIA		WW2-4	40	FEET	$\frac{1}{1}$		CONDUIT, 0.75" E								Г	
		EN-CB-60A-240VAC GEN-AWB-TB-4-4X		CB1 JB1		PIECE PIECE	<u> </u>		UIT BREAKER, 60 SITION/PASS-TH				01/0					
																		PAPER SIZE: 11" x 17" (ANSI B) DESIGN TABLES E: XX.XX.XXXX SIGN BY: X.X. ECKED BY: X.X.
																	REVI	UISIONS E-602.00

LABELING NOTES

1.1 LABELING REQUIREMENTS BASED ON THE 2014 NATIONAL ELECTRICAL CODE, INTERNATIONAL FIRE CODE 605.11. OSHA STANDARD 1910.145. ANSI Z535 1.2 MATERIAL BASED ON THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.

1.3 LABELS TO BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.

1.4 LABELS TO BE A MINIMUM LETTER HEIGHT OF 3/8" AND PERMANENTLY AFFIXED. 1.5 ALERTING WORDS TO BE COLOR CODED. "DANGER" WILL HAVE RED. BACKGROUND; "WARNING" WILL HAVE ORANGE BACKGROUND; "CAUTION" WILL HAVE YELLOW BACKGROUND. [ANSI Z535]

WARNING

ELECTRICAL SHOCK HAZARD

THE DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUNDED AND MAY BE ENEGIZED

PLACARD 1

AT EACH JUNCTION, COMBINER, DISCONNECT AND DEVICE WHERE ENERGIZED UNGROUNDED CONDUCTORS MAY BE EXPOSED DURING SERVICE (3" X 4"). [NEC 690.35(F)]

ELECTRICAL SHOCK HAZARD

DO NOT TOUCH TERMINALS FERMINALS ON BOTH THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

LABEL 2

AT EACH DISCONNECTING MEANS FOR PHOTOVOLTAIC EQUIPMENT (3" X 4"). [NEC 690.17]

> PHOTOVOLTAIC SYSTEM AC DISCONNECT

RATED AC OUTPUT CURRENT 47.5 A NOMINAL OPERATING AC VOLTAGE 240 V

LABEL 3

AT POINT OF INTERCONNECTION, MARKED AT DISCONNECTING MEANS (2" X 4"). [NEC 690.54]

PHOTOVOLTAIC SOLAR

AC DISCONNECT LABEL 4

AT EACH AC DISCONNECTING MEANS (1" X 4") [NEC 690.13(B)]

PHOTOVOLTAIC SYSTEM EQUIPPED WITH RAPID SHUTDOWN

LABEL 5 AT RAPID SHUTDOWN SWITCH (5 1/4" X 2"). [NEC 690.56(C)].

> PHOTOVOLTAIC SOLAR DC DISCONNECT

LABEL 6 AT EACH DC DISCONNECTING MEANS (1" X 4") [NEC 690.13(B)]

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

LABEL 7 AT POINT OF INTERCONNECTION (2 3/4" X 1 5/8"). [NEC 705.12(D)(3)]

WARNING SOLAR ELECTRIC CIRCUIT BREAKER IS BACKFED

LABEL 8 AT POINT OF INTERCONNECTION (2" X 1"). [NEC 705.12(D)(3)]



AT POINT OF INTERCONNECTION OVERCURRENT DEVICE (2" X 4"). [NEC 705.12(D)(2)]

INTERACTIVE PHOTOVOLTAIC SYSTEM CONNECTED PHOTOVOLTAIC SYSTEM DISCONNECT LOCATED NW SIDE OF THE HOUSE

DIRECTORY

PERMANENT PLAQUE OR DIRECTORY PROVIDING THE LOCATION OF THE SERVICE DISCONNECTING MEANS AND THE PHOTOVOLTAIC SYSTEM DISCONNECTING MEANS IF NOT IN THE SAME LOCATION (5 3/4" X 1 1/8") [NEC 690.56(B)]

WHERE THE INVERTERS ARE REMOTELY LOCATED FROM EACH OTHER, A DIRECTORY IN ACCORDANCE WITH 705.10 SHALL BE INSTALLED AT EACH DC PV SYSTEM DISCONNECTING MEANS, AT EACH AC DISCONNECTING MEANS, AND AT THE MAIN SERVICE DISCONNECTING MEANS SHOWING THE LOCATION OF ALL AC AND DC PV SYSTEM DISCONNECTING MEANS IN THE BUILDING. [NEC 690.4(H)]

WARNING: PHOTOVOLTAIC **POWER SOURCE**

LABEL 10

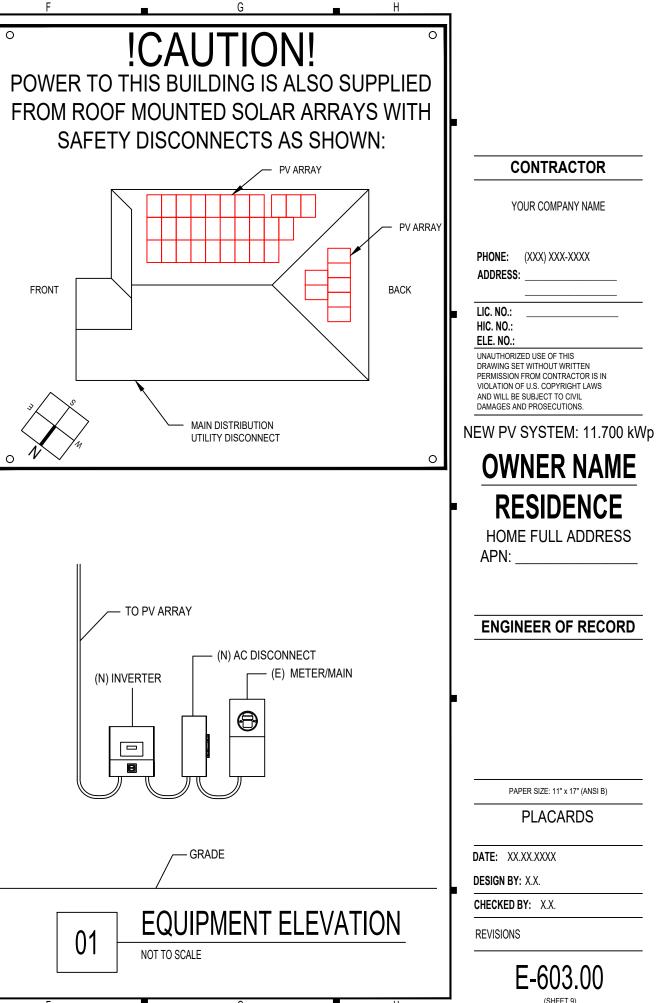
AT EXPOSED RACEWAYS, CABLE TRAYS, AND OTHER WIRING METHODS: SPACED AT MAXIMUM 10 FT SECTION OR WHERE SEPARATED BY ENCLOSURES, WALLS, PARTITIONS, CEILINGS, OR FLOORS (5 3/4" X 1 1/8"). [NEC 690.31(G)] LETTERS AT LEAST 3/8 INCH; WHITE ON RED BACKGROUND; REFLECTIVE [IFC 605.11.1.1]

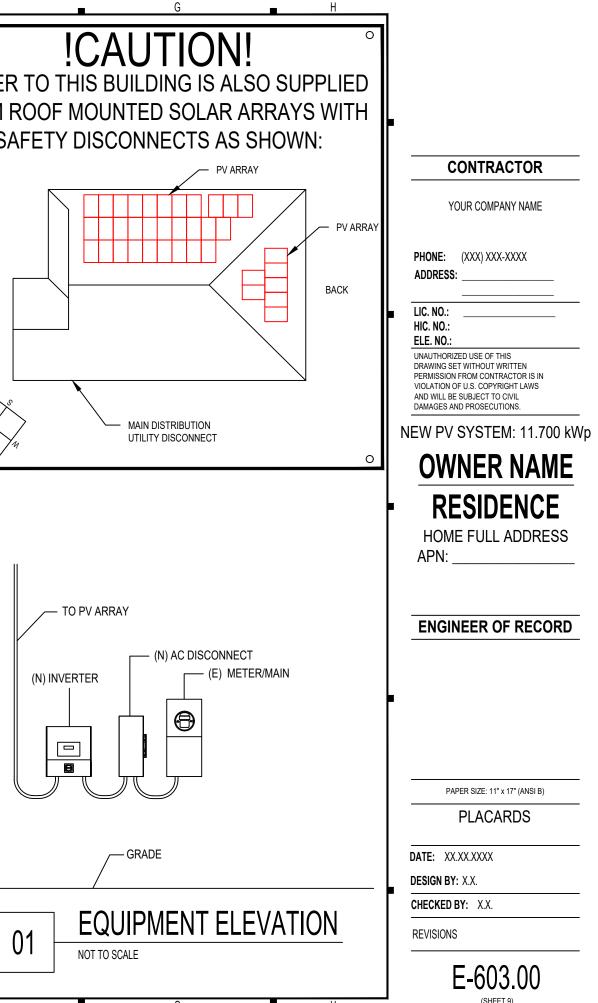
PHOTOVOLTAIC SYSTEM DC DISCONNECT RATED MPP CURRENT 29.25 AMPS RATED MPP VOLTAGE 400 VOLTS MAX SYSTEM VOLTAGE 480 VDC MAX CIRCUIT CURRENT 45 AMPS

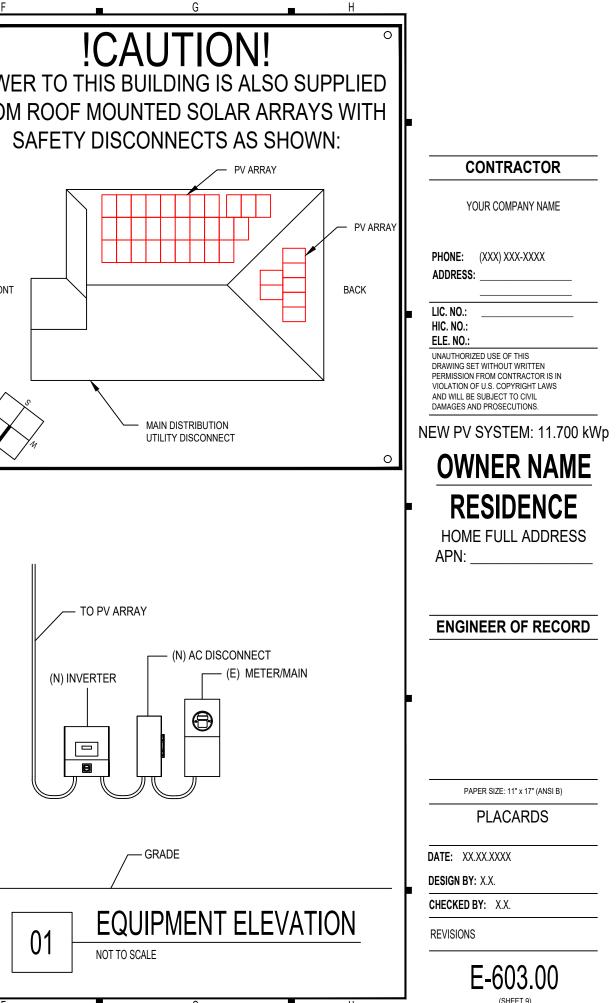
LABEL 11 AT EACH DC DISCONNECTING MEANS (3" X 4"). [NEC 690.53]

SOLAR ELECTRIC SYSTEM CONNECTED

LABEL 12 AT UTILITY METER (5 3/4" X 1 1/8") [NEC 690.56(B)]







/// PEIMAR



30 YEAR LINEAR POWER WARRANTY

MODULE FIRE PERFORMANCE: CLASS 1

20 YEAR PRODUCT WARRANTY

PERC TECHNOLOGY

ANTI-REFLECTIVE GLASS

QBE INSURANCE

Product Liability Insurance OBE

*

3

<u> ||</u>;;

QBE

SM325M (FB) RESIDENTIAL LINE

MADE IN ITALY MODULE

Peimar monocrystalline solar panels, produced using a combination of innovative production processes and advanced engineering techniques, provide customers with maximum output and super high performance.

This allows fewer panels to be used to generate more energy, ideal if space is restricted or environmental conditions are challenging. Modern design, using matching black cells and frames and a very long lifespan ensure this monocrystalline are a great option.

CELLS



60 CELLS MONO 5BB M3 | PERC

158.75x158.75mm / 6.25x6.25"

FRAME



COMPACT AND STURDY | 40mm ANCHORABLE ALSO ON THE SHORT SIDE (4)

ELECTRICAL CHARACTERISTICS (STC) (1)

Nominal Output (Pmax)	
Power Tolerance	
Voltage at Pmax (Vmp)	
Current at Pmax (Imp)	
Open Circuit Voltage (Voc)	
Short Circuit Current (Isc)	
Maximum System Voltage	
Maximum Series Fuse Rating	
Module Efficiency	
Protection class against electric shock	

MECHANICAL CHARACTERISTICS

Solar Cells	60 (6x10) M3 monocrystalline PERC					
Solar Cells Size	158.75x158.75 mm / 6.25x6.25"					
Front Cover	3.2 mm / 0.13" thick, low iron tempered glass					
Back Cover	TPT (Tedlar-PET-Tedlar)					
Encapsulant	EVA (Ethylene vinyl acetate)					
Frame	Anodized aluminium alloy, double wall					
Frame finishing	Black					
Backsheet finishing	Black					
Diodes	3 Bypass diodes serviceable					
Junction Box	IP67 rated					
Connector	MC4 or compatible connector					
Cables Length	900 mm / 35.43"					
Cables Section	4.0 mm ² / 0,006 in ²					
Dimensions	1665x1002x40 mm / 65.55x39.45x1.57"					
Weight	18.6 Kg / 41.01 lbs					
Max. Load (4)	Certified to 5400 Pa					

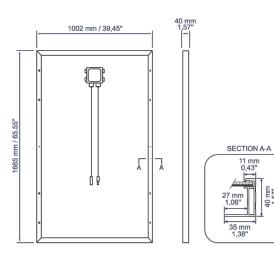
TEMPERATURE CHARACTERISTICS

NOCT (2)

Temperature Coefficient of Pmax	
Temperature Coefficient of Voc	
Temperature Coefficient of Isc	
Operating Temperature	
PACKAGING (3)	
Pallet dimensions	
Pieces per pallet	
Weight	
CERTIFICATIONS	

Fire Resistance Rating

DIMENSIONS

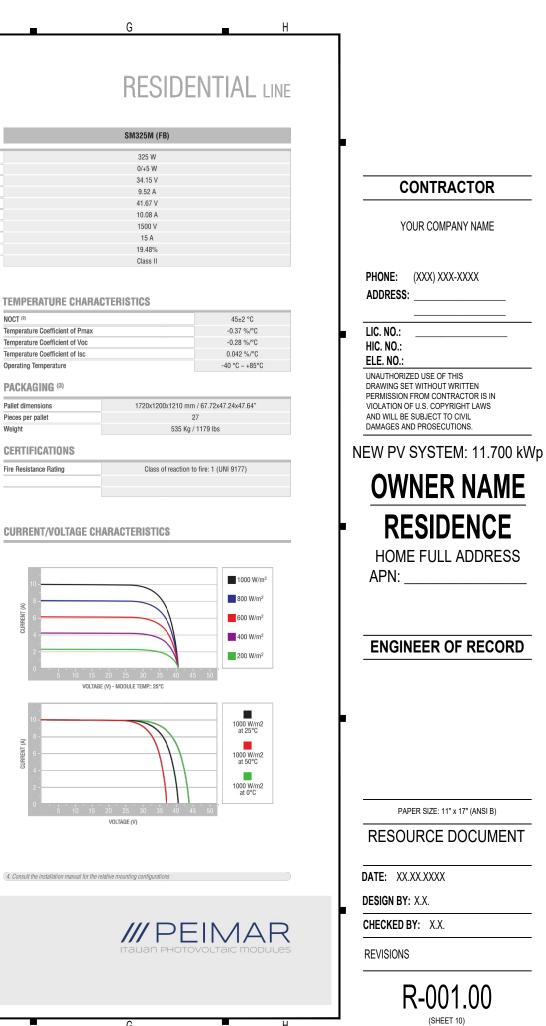


		-	-	_	-		-	-	
		_	_		_		_		
	- ÷	5		10		15		20	2
					V	DLTA	GE	(∀) -	M

CURRENT (A)	10
CURREN	6 - 4 - 2 - 0 - 5 - 10

1. STC: (Standard Test Condition) Irradiance 1000W/m²; Module Temperature 25°C; Air Mass 1.5 2. NOCT: (Nominal Operation Cell Temperature) Irradiance 800W/m²; Air 20°C; Wind speed 1m/s 3 Pallets can be stacked up to two

Peimar reserves the right to change the technical specifications, information and figures contained in this document at any time without notice. EN 2020.02.00



Single Phase Inverter with HD-Wave Technology

for North America

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



Optimized installation with HD-Wave technology

- Specifically designed to work with power optimizers
- Record-breaking efficiency
- Fixed voltage inverter for longer strings
- / Integrated arc fault protection and rapid shutdown for / Optional: Revenue grade data, ANSI C12.20 NEC 2014 and 2017, per article 690.11 and 690.12
- / UL1741 SA certified, for CPUC Rule 21 grid compliance

solaredge.com

- Extremely small
- Built-in module-level monitoring
- Outdoor and indoor installation
- Class 0.5 (0.5% accuracy)



NVERTERS

Single Phase Inverter with HD-Wave Technology for North America SE3000H-US / SE3800H-US / SE6000H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US

	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600F
OUTPUT		2000 @ 2401/		C000 @ 240V	1
Rated AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600
Maximum AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600
AC Output Voltage MinNomMax. (211 - 240 - 264)	~	~	~	~	~
AC Output Voltage MinNomMax. (183 - 208 - 229)	-	√	-	1	-
AC Frequency (Nominal)				59.3 - 60 - 60.5(1)	
Maximum Continuous Output Current @240V	12.5	16	21	25	32
Maximum Continuous Output Current @208V	-	16	-	24	-
GFDI Threshold				1	*
Utility Monitoring, Islanding Protection, Country Configurable Thresholds				Yes	
INPUT					
Maximum DC Power @240V	4650	5900	7750	9300	11800
Maximum DC Power @208V	-	5100	-	7750	-
Transformer-less, Ungrounded				Yes	*
Maximum Input Voltage				480	
Nominal DC Input Voltage		3	80		
Maximum Input Current @240V ⁽²⁾	8.5	10.5	13.5	16.5	20
Maximum Input Current @208V ⁽²⁾	-	9	-	13.5	-
Max. Input Short Circuit Current				45	
Reverse-Polarity Protection				Yes	
Ground-Fault Isolation Detection				600ka Sensitivity	
Maximum Inverter Efficiency	99			9	9.2
CEC Weighted Efficiency			g	9	
Nighttime Power Consumption			·	< 2.5	
ADDITIONAL FEATURES					
Supported Communication Interfaces			RS485, Etherne	t, ZigBee (optional), C	ellular (option
Revenue Grade Data, ANSI C12.20				Optional ⁽³⁾	
Rapid Shutdown - NEC 2014 and 2017 690.12			Automatic Rapi	d Shutdown upon AC	Grid Disconne
STANDARD COMPLIANCE			·		
Safety		UL1741	, UL1741 SA, UL1699B,	CSA C22.2, Canadiar	n AFCI accordii
Grid Connection Standards			IEE	E1547, Rule 21, Rule 14	I (HI)
Emissions			·	FCC Part 15 Class B	
INSTALLATION SPECIFICA	TIONS				
AC Output Conduit Size / AWG Range		3/	4" minimum / 14-6 AV	VG	
DC Input Conduit Size / # of Strings / AWG Range		3/4″ mir	imum / 1-2 strings / 1	4-6 AWG	
Dimensions with Safety Switch (HxWxD)		17.7 x	14.6 x 6.8 / 450 x 370) x 174	
Weight with Safety Switch	22	/ 10	25.1 / 11.4	26.2	/ 11.9
Noise			25		
Cooling				Natural Convection	
Operating Temperature Range			-40 to +140 /	-25 to +60 ⁽⁴⁾ (-40°F /	-40°C option)(
Protection Rating				4X (Inverter with Safet	

enue grade inverter P/N: SExxxxH-US000NNC2

For power de-rating information refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pd

ersion P/N: SExxxxH-US000NNU4

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-US	SE10000H-US	SE11400H-US	
	10000	11400 @ 240V 10000 @ 208V	VA
	10000	11400 @ 240V 10000 @ 208V	VA
	✓	✓	Vac
	-	√	Vac
			Hz
	42	47.5	A
	-	48.5	A
			A
	15500	17650	W
	-	15500	W
			Vdc
	400		Vdc
	27	30.5	Adc
	-	27	Adc
			Adc
			%
		99 @ 240V 98.5 @ 208V	%
			W
	-		
al)			
ect			
ng to T.	I.L. M-07		
	3/4" minimu	m /14-4 AWG	
	3/4" minimum / 1-3	strings / 14-6 AWG	
	21.3 x 14.6 x 7.3 ,	/ 540 x 370 x 185	in / mm
	38.8	/ 17.6	lb / kg
	<50		dBA
5)			°E / °C
-,			°F / °C
			<u> </u>

RoHS

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UNAUTHORIZED USE OF THIS DRAWING SET WITHOUT WRITTEN PERMISSION FROM CONTRACTOR IS IN VIOLATION OF U.S. COPYRIGHT LAWS AND WILL BE SUBJECT TO CIVIL DAMAGES AND PROSECUTIONS

NEW PV SYSTEM: 11.700 kWp

OWNER NAME RESIDENCE HOME FULL ADDRESS

APN:

ENGINEER OF RECORD

PAPER SIZE: 11" x 17" (ANSI B)

RESOURCE DOCUMENT

DATE: XX.XX.XXXX

DESIGN BY: X.X.

CHECKED BY: X.X.

REVISIONS

R-002.00 (SHEET 11)

Power Optimizer

For North America P320 / P340 / P370 / P400 / P405 / P505



POWER **OPTIMIZ** Π

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
- I Next generation maintenance with modulelevel monitoring
- Meets NEC requirements for arc fault protection (AFCI) and Photovoltaic Rapid Shutdown System (PVRSS)
- I Module-level voltage shutdown for installer and firefighter safety

/ Power Optimizer For North America P320 / P340 / P370 / P400 / P405 / 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 thin film modules)	P505 (for higher current modules)	
INPUT							
Rated Input DC Power®	320	340	370	400	405	505	W
Absolute Maximum Input Voltage (Voc at lowest temperature)	2	18	60	80	125(2)	83 ⁽²⁾	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	.63	17.5	Adc
Maximum Efficiency			99	9.5	i		%
Weighted Efficiency			98.8			98.6	%
Overvoltage Category							
OUTPUT DURING OPER	RATION (POWE	R OPTIMIZER C	ONNECTED TO	OPERATING SO	LAREDGE INVER	RTER)	
Maximum Output Current			1	5			Adc
Maximum Output Voltage		6	50		8	5	Vdc
INVERTER OFF) Safety Output Voltage per Power Optimizer			1 ±	0.1			Vdc
STANDARD COMPLIAN	CE						
EMC		FC	CC Part15 Class B, IEC6	51000-6-2, IEC61000-€	5-3		
Safety			IEC62109-1 (class	s II safety), UL1741			
RoHS			Y	es			
INSTALLATION SPECIFI	CATIONS						
Maximum Allowed System Voltage			10	00			Vdc
Compatible inverters		All S	olarEdge Single Phase				
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				24(3)			
Output Wire Type / Connector			Double Ins	ulated; MC4			
Output Wire Length	0.95	/ 3.0			/ 3.9		m / ft
Input Wire Length				/ 0.52			m / ft
Operating Temperature Range			· · · · · · · · · · · · · · · · · · ·	/ -40 - +185			°C / °F
Protection Rating				NEMA6P			
Relative Humidity			0 -	100			%

 $^{(l)}$ Rated STC power of the module. Module of up to +5% power tolerance allowed $^{(2)}$ NEC 2017 requires max input voltage be not more than 80V

9 F	or	other	connector	types	please	contact	Sola	Edge	
-----	----	-------	-----------	-------	--------	---------	------	------	--

PV System De a SolarEdge	esign Using Inverter ⁽⁴⁾⁽⁵⁾	Single Phase HD-Wave	Single phase	Three Phase 208V	Three Phase 480V	
Minimum String Length	P320, P340, P370, P400	8		10	18	
(Power Optimizers)	P405 / P505	6		8	14	
Maximum String Length (Power Optimizers)		2	5	25	50(6)	
Maximum Power per String		5700 (6000 with SE7600-US - SE11400- US)	5250	6000(7)	12750 ⁽⁸⁾	W
Parallel Strings of Different Lengths		Yes				

or Orientations

⁽⁴⁾ For detailed string sizing information refer to: http://www.solaredge.com/sites/default/files/string_sizing_na.pdf
 ⁽³⁾ It is not allowed to mix P405/P505 with P320/P340/P370/P400 in one string
 ⁽⁴⁾ A string with more than 30 optimizers does not meet NEC rapid shutdown requirements; safety voltage will be above the 30V requirement
 ⁽⁵⁾ For SE14.4KUS/SE43.2KUS: It is allowed to install up to 6,500W per string when 3 strings are connected to the inverter (3 strings per unit for SE43.2KUS) and when the more than the more than the more than the total up to 1,000W

the maximum power difference between the strings is up to 1,000W Por SE30KUS/SE33.3KUS/SE66.6KUS/SE100KUS: It is allowed to install up to 15,000W per string when 3 strings are connected to the inverter (3 strings per unit for SE66.6KUS/SE100KUS) and when the maximum power difference between the strings is up to 2,000W



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DESIGN BY: X.X.

CHECKED BY: X.X.

REVISIONS

R-003.00 (SHEET 12)



Solar Is Not Always Sunny

enough to buckle a panel frame.

these results. They resist uplift, protect

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.

against buckling and safely and efficiently

Over their lifetime, solar panels experience countless

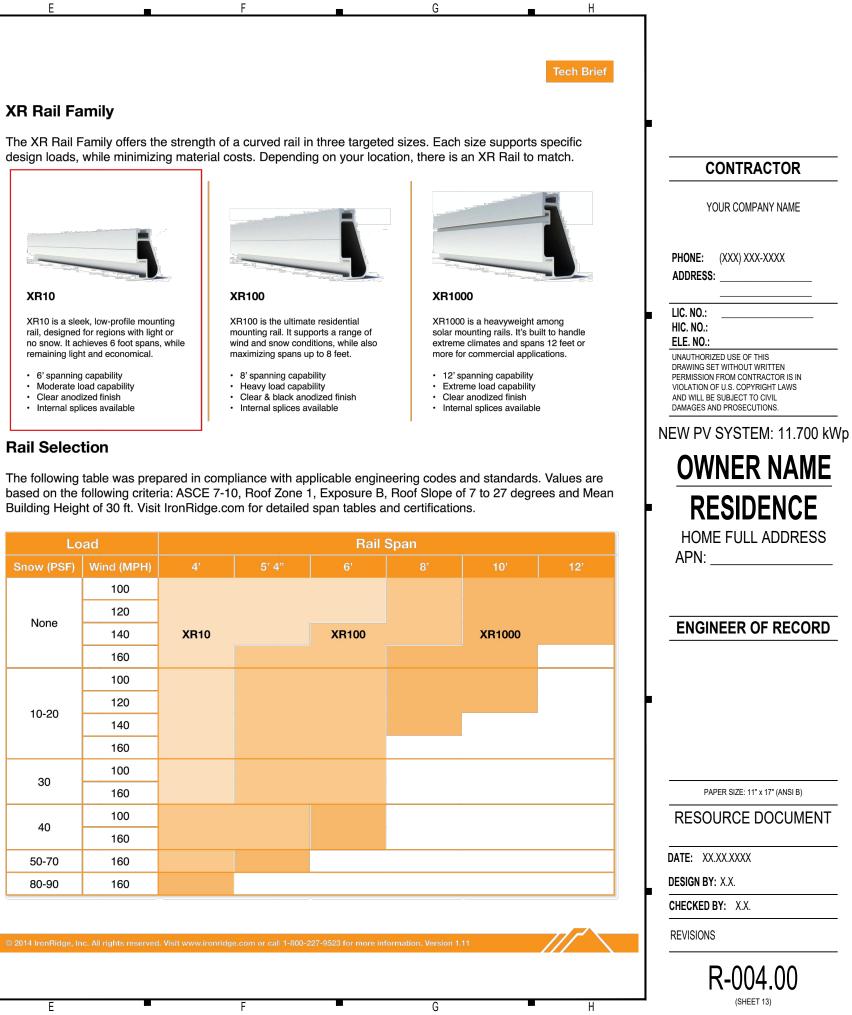
XR Rails are the structural backbone preventing

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

Tech Brief

XR Rail Family

XR Rail Family



Rail Selection

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

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



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.





