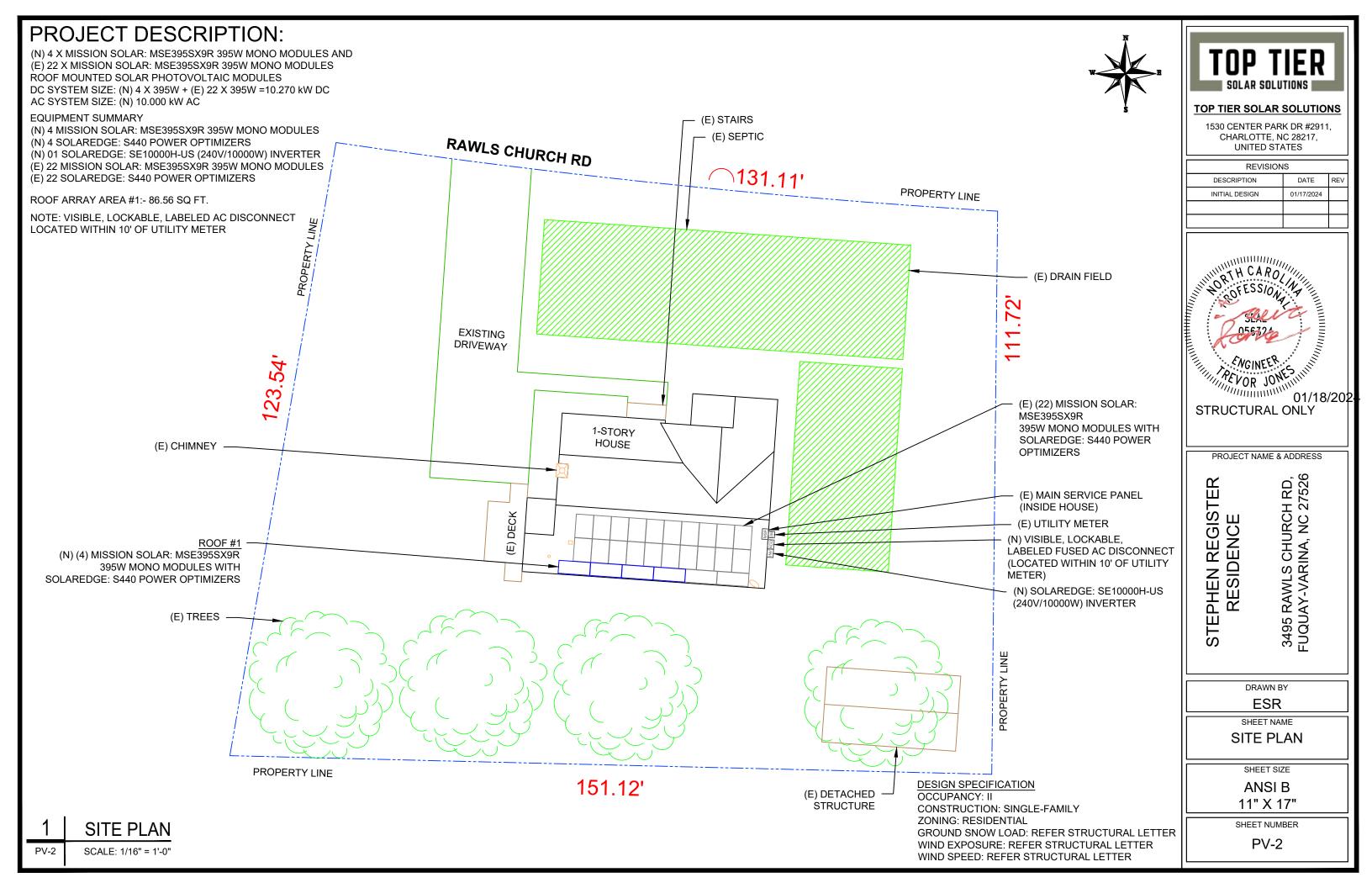
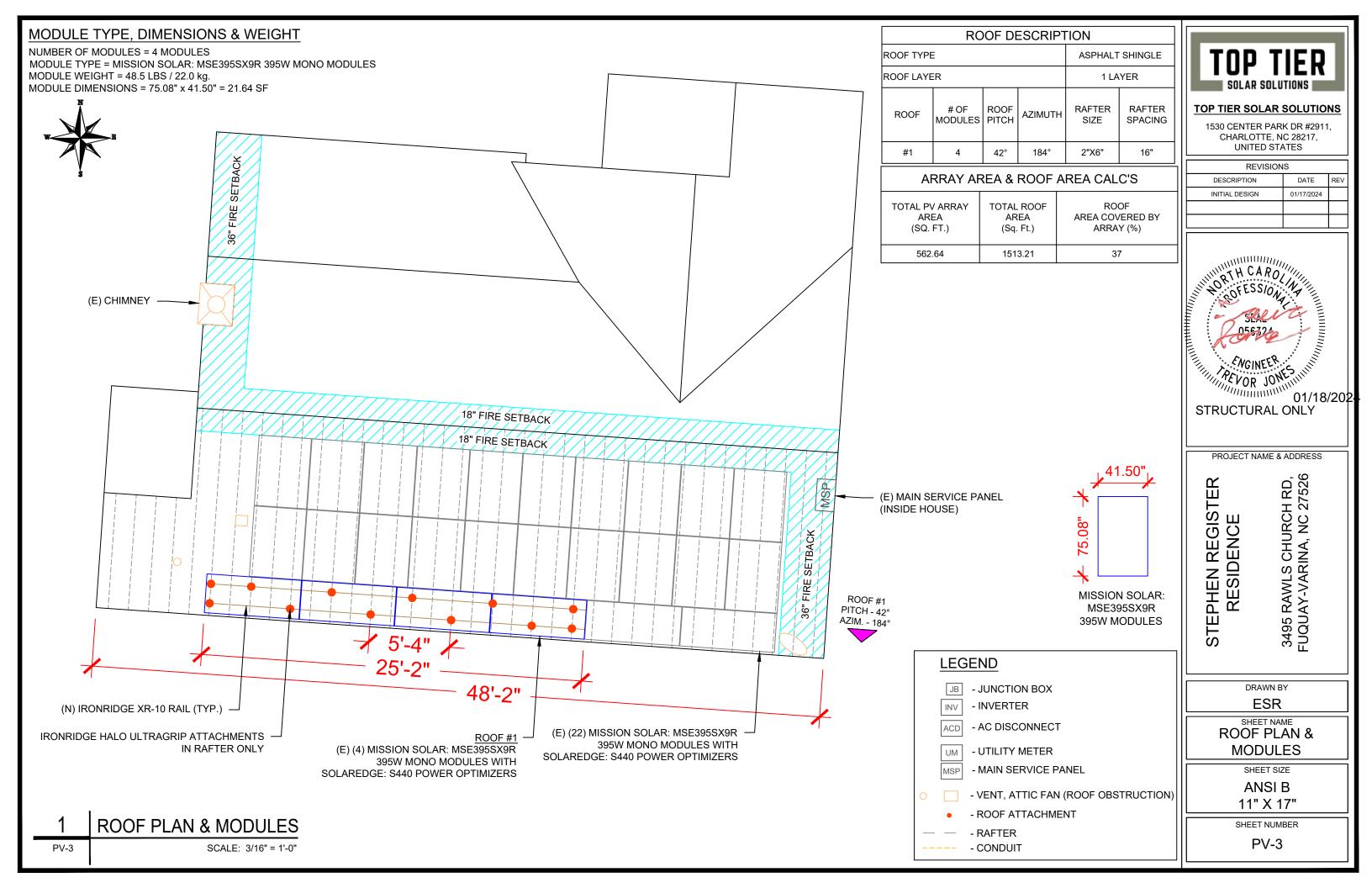
PHOTOVOLTAIC ROOF MOUNTED - 10.270 kW DC, 10.000 kW AC

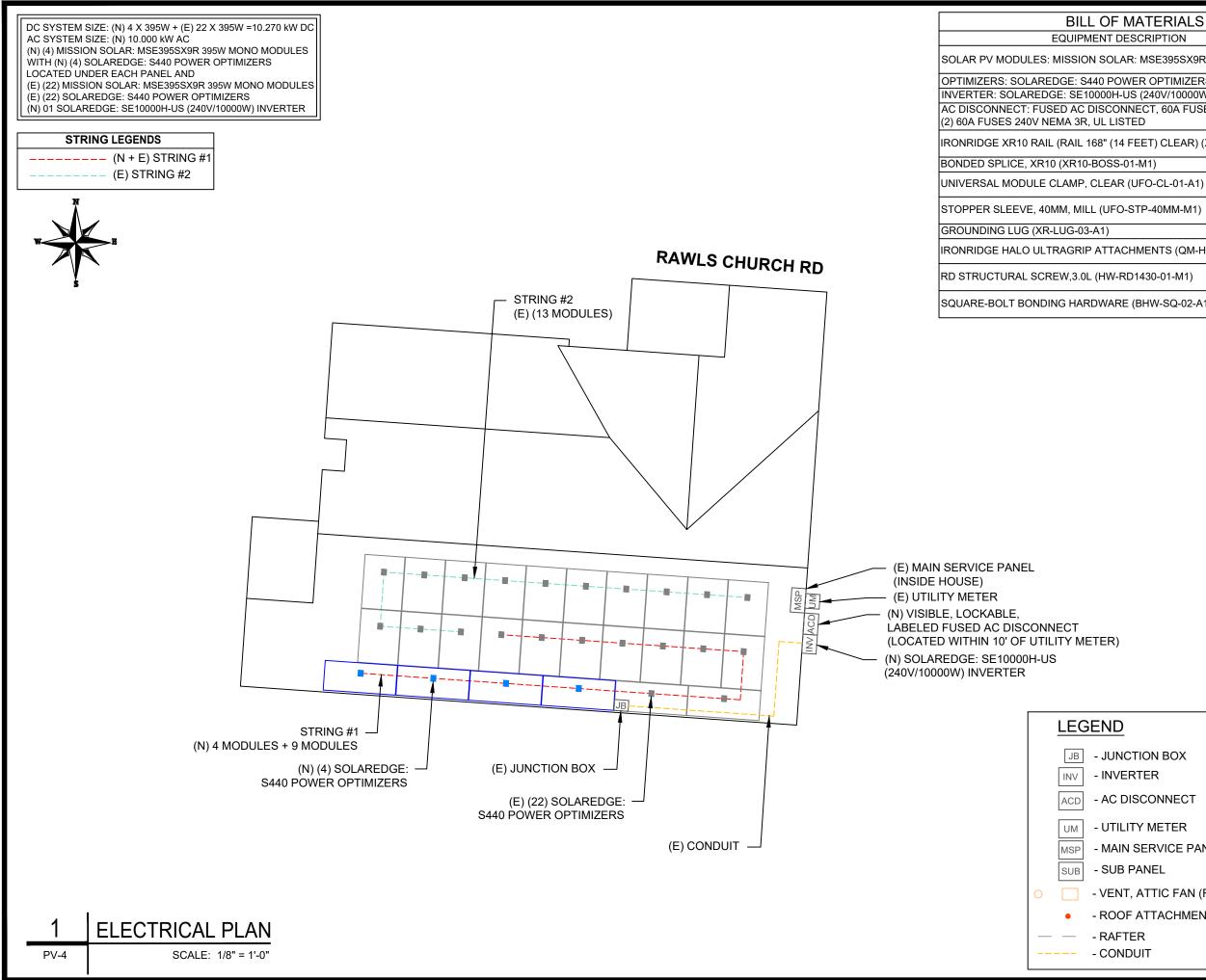
3495 RAWLS CHURCH RD, FUQUAY-VARINA, NC 27526

PROJECT DATA	GENERAL NOTES	VICI
PROJECT 3495 RAWLS CHURCH RD, ADDRESS FUQUAY-VARINA, NC 27526 OWNER: STEPHEN REGISTER DESIGNER: ESR SCOPE: (N) 1.580 KW DC ROOF MOUNT SOLAR PV SYSTEM WITH (N) 4 MISSION SOLAR: MSE395SX9R 395W PV MODULES WITH (N) 4 SOLAREDGE: S440 POWER OPTIMIZERS AND (N) 01 SOLAREDGE: SE10000H-US (240V/10000W) INVERTER EXISTING: INTER	 ALL COMPONENTS ARE UL LISTED AND CEC CERTIFIED, WHERE WARRANTED. THE SOLAR PV SYSTEM WILL BE INSTALLED IN ACCORDANCE WITH ARTICLE 690 OF THE NEC 2017. THE UTILITY INTERCONNECTION APPLICATION MUST BE APPROVED AND PV SYSTEM INSPECTED PRIOR TO PARALLEL OPERATION. ALL CONDUCTORS OF A CIRCUIT, INCLUDING THE EGC, MUST BE INSTALLED IN THE SAME RACEWAY, OR CABLE, OR OTHERWISE RUN WITH THE PV ARRAY CIRCUIT CONDUCTORS WHEN THEY LEAVE THE VICINITY OF THE PV ARRAY. WHERE METALLIC CONDUIT CONTAINING DC CONDUCTORS IS USED INSIDE THE BUILDING, IT SHALL BE IDENTIFIED AS "CAUTION: SOLAR CIRCUIT" EVERY 10FT. HEIGHT OF THE AC DISCONNECT SHALL NOT EXCEED 6'-7" PER NEC CODE 240.24. 	VICII Fuquay-Varina 3495 Rawls Church Rd, Fuquay-Varina, Nu 27526, United States 210 HOU
 (E) 8.690 kW DC ROOF MOUNT SOLAR PV SYSTEM WITH (E) 22 MISSION SOLAR: MSE3955X9R 395W PV MODULES WITH (E) 22 SOLAREDGE: S440 POWER OPTIMIZERS AUTHORITIES HAVING JURISDICTION: BUILDING: HARNETT COUNTY ZONING: HARNETT COUNTY UTILITY: DUKE ENERGY PROGRESS SHEET INDEX PV-1 COVER SHEET PV-2 SITE PLAN PV-3 ROOF PLAN & MODULES PV-4 ELECTRICAL PLAN PV-5 STRUCTURAL DETAIL PV-6 ELECTRICAL LINE DIAGRAM PV-7 WIRING CALCULATIONS PV-8+ EQUIPMENT SPECIFICATIONS	 GROUNDING ELECTRODE TO PROVIDE FOR A COMPLETE SYSTEM. PHOTOVOLTAIC MODULES ARE TO BE CONSIDERED NON-COMBUSTIBLE. PHOTOVOLTAIC INSTALLATION WILL NOT OBSTRUCT ANY PLUMBING. MECHANICAL, OR BUILDING ROOF VENTS. ALL WIRING MUST BE PROPERLY SUPPORTED BY DEVICES OR MECHANICAL MEANS DESIGNED AND LISTED FOR SUCH USE. WIRING MUST BE PROPERLY SUPPORTED BY DEVICES OR MECHANICAL MEANS DESIGNED AND LISTED FOR SUCH USE. ALL SINAGE TO BE PLACED IN ACCORDANCE WITH THE LOCAL BUILDING CODE. IF EXPOSED TO SUNLIGHT, IT SHALL BE UV RESISTANT. ALL PLAQUES AND SINAGE WILL BE INSTALLED AS REQUIRED BY THE NEC AND AHJ. INVERTER(S) USED IN UNGROUNDED SYSTEM SHALL BE UL 1741 LISTED. THE INSTALLATION OF EQUIPMENT AND ALL ASSOCIATED WIRING AND INTERCONNECTION SHALL BE PERFORMED ONLY BY QUALIFIED PERSONS [NEC 690.4(C)] ALL OUTDOOR EQUIPMENT SHALL BE NEMA 3R RATED (OR BETTER), INCLUDING ALL ROOF MOUNTED TRANSITION BOXES AND SWITCHES. ALL EQUIPMENT SHALL BE NEMA 3R RATED (OR BETTER), INCLUDING ALL ROOF MOUNTED TRANSITION BOXES AND SWITCHES. ALL EQUIPMENT SHALL BE IN ACCORDANCE WITH NEC 690.41. PV SYSTEM GROUNDING SHALL BE IN ACCORDANCE WITH NEC 690.41. PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION IN ACCORDANCE WITH 	HOU
SIGNATURE	 NEC 690.12 18. DISCONNECTING MEANS SHALL BE LOCATED IN A VISIBLE, READILY ACCESSIBLE LOCATION WITHIN THE PV SYSTEM EQUIPMENT OR A MAXIMUM OF 10 FEET AWAY FROM THE SYSTEM [NEC 690.13(A)] 19. ALL WIRING METHODS SHALL BE IN ACCORDANCE WITH NEC 690.31 20. WORK CLEARANCES AROUND ELECTRICAL EQUIPMENT WILL BE MAINTAINED PER NEC 110.26(A)(1), 110.26(A)(2) AND 110.26(A)(3). 21. ROOFTOP MOUNTED PHOTOVOLTAIC PANELS AND MODULES SHALL BE TESTED, LISTED & IDENTIFIED IN ACCORDANCE WITH UL1703 22. ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT EXPANSION JOINTS AND ANCHOR CONDUIT RUNS AS REQUIRED PER NEC. 	CODEE F 2018 NORTH CAROLINA 2018 NORTH CAROLINA 2018 NORTH CAROLINA 2017 NATIONAL ELECT NOTE COMPACT Automatic Market State Market Market State Compact State State Compact State Compac

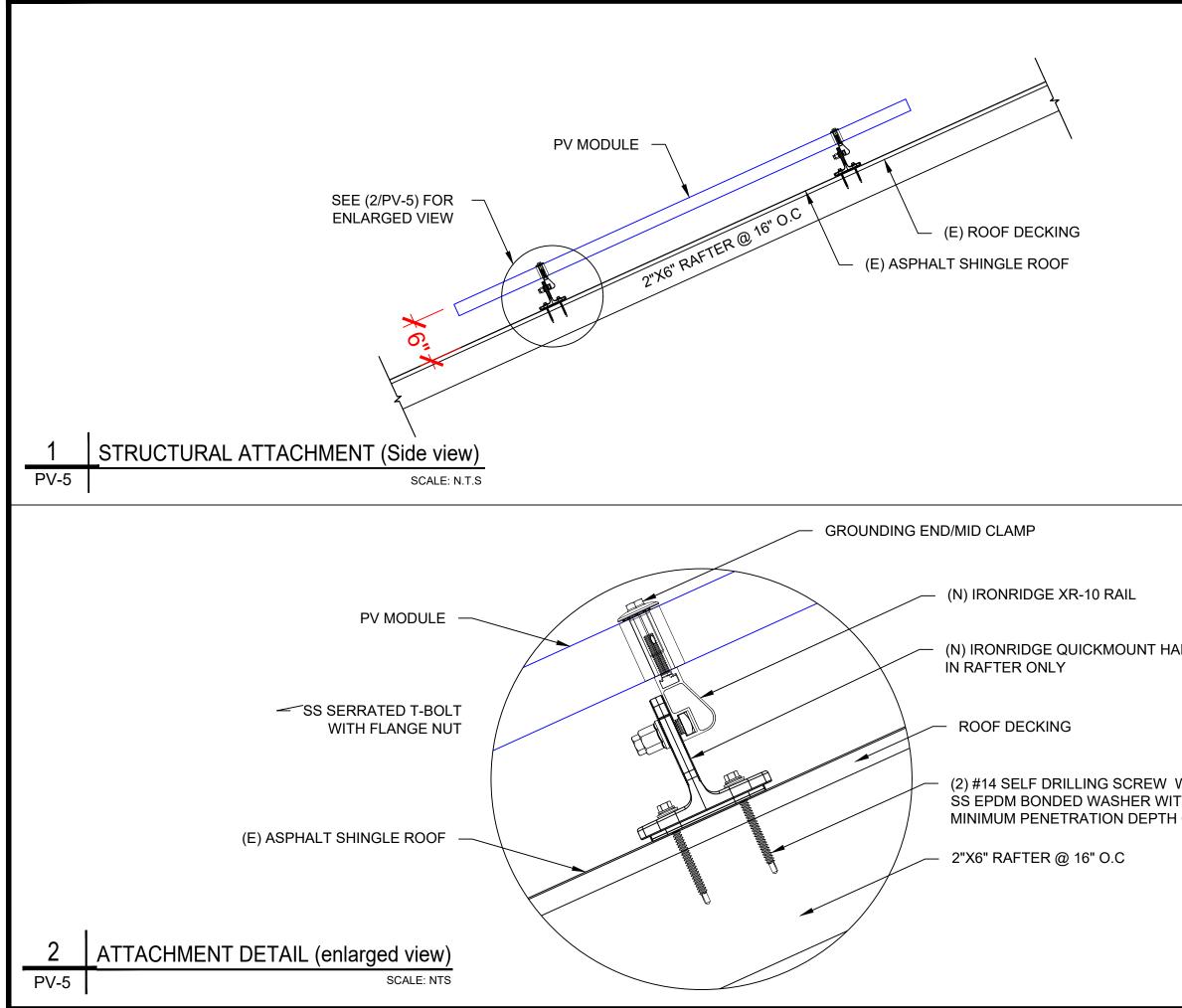




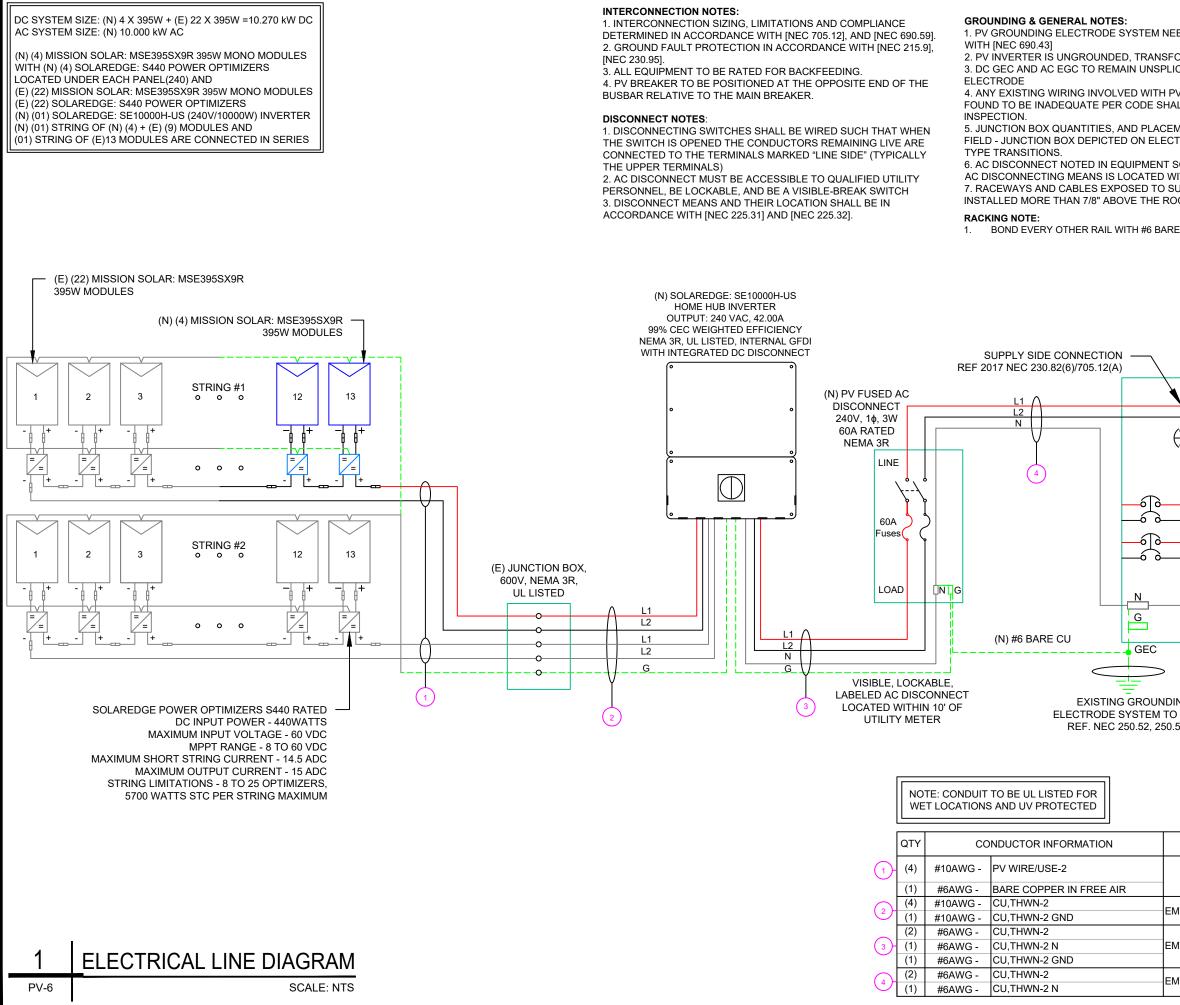




IATERIALS						
SCRIPTION	QTY		топ) T		
: MSE395SX9R 395W MODULE	4				IER	
	4	199 19	SOLAI	R SOLU	TIONS	
S (240V/10000W) INVERTER IECT, 60A FUSED,	01	<u>tof</u>	TIER SO		SOLUTIO	NS
ED	1	15			K DR #2911	,
EET) CLEAR) (XR-10-168A)	4		CHARLC UNIT	OTTE, N ED STA		
I-M1)	2			EVISION		
UFO-CL-01-A1)	10		DESCRIPTIO		DATE	REV
STP-40MM-M1)	4		INITIAL DESIG	N	01/17/2024	
	1					
IMENTS (QM-HUG-01-M1)	11					
1430-01-M1)	22					
(BHW-SQ-02-A1)	11					
TION BOX RTER					3495 KAWLS CHUKCH KU, FUQUAY-VARINA, NC 27526	
SCONNECT				ESR		
			SH	EET NAM	ИE	
TY METER SERVICE PANEL		EL			. PLAN	
PANEL				IEET SIZ		
ATTIC FAN (ROOF OBSTRUCT	FION)			NSI		
ATTACHMENT			11	" X 1	<u>("</u>	
ER			SHE	ET NUM	BER	
UIT			l	PV-4		



ALO ULTRAGRIP			
ALO ULTRAGRIP W/ TH A I OF 2.5"		SOLAR S TOP TIER SOL 1530 CENTER CHARLOT UNITED REV DESCRIPTION	AR SOLUTIONS AR SOLUTIONS PARK DR #2911, TE, NC 28217, D STATES ISIONS DATE REV
ALO ULTRAGRIP W/ TH A I OF 2.5" ALO ULTRAGRIP W/ TH A I OF 2.5" ALO ULTRAGRIP		ENGINI	EER SUMMUNUMUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU
ALO ULTRAGRIP W/ TH A I OF 2.5" II I II I		PROJECT NA	ME & ADDRESS
TH A ESR	ALO ULTRAGRIP	Ξ	3495 RAWLS CHURCH RD, FUQUAY-VARINA, NC 27526
STRUCTURAL DETAIL		STRUCTUR	RAL DETAIL
SHEET SIZE ANSI B 11" X 17"		AN 11"	ISI B X 17"
SHEET NUMBER PV-5			



EEDS TO BE INSTALLED IN ACCO		TOP	TIER			
LICED, OR SPLICED TO EXISTING			SOLUTIONS			
PV SYSTEM CONNECTION THAT IALL BE CORRECTED PRIOR TO F		TOP TIER SOLAR SOLUTIONS				
EMENT SUBJECT TO CHANGE IN CTRICAL DIAGRAM REPRESENT		CHARLO	R PARK DR #2911, TTE, NC 28217, ED STATES			
SCHEDULE OPTIONAL IF OTHEF		RE	VISIONS			
SUNLIGHT ON ROOFTOPS SHOU	LD BE	DESCRIPTION				
RE COPPER						
TO UTILITY O	— L1)— L2 — N NAL					
UTILITY MET 120/240V, 1¢	, 3-W					
(E) MAIN BRE HOUSE 240V						
(E) MAIN SER PANEL,SIEME	NS		AME & ADDRESS			
200A RATED,	240V		(0			
DING O EARTH 0.53(A)	CTION AT E PANEL	STEPHEN REGISTER RESIDENCE	3495 RAWLS CHURCH RD, FUQUAY-VARINA, NC 27526			
			AWN BY			
1 -			ESR			
CONDUIT TYPE	ONDUIT SIZE					
N/A	N/A	SHE	EET SIZE			
EMT OR LFMC IN ATTIC	3/4"		NSI B			
EMT, LFMC OR PVC	3/4"		' X 17"			
EMT, LFMC OR PVC	3/4"	P	V-6			
	_					

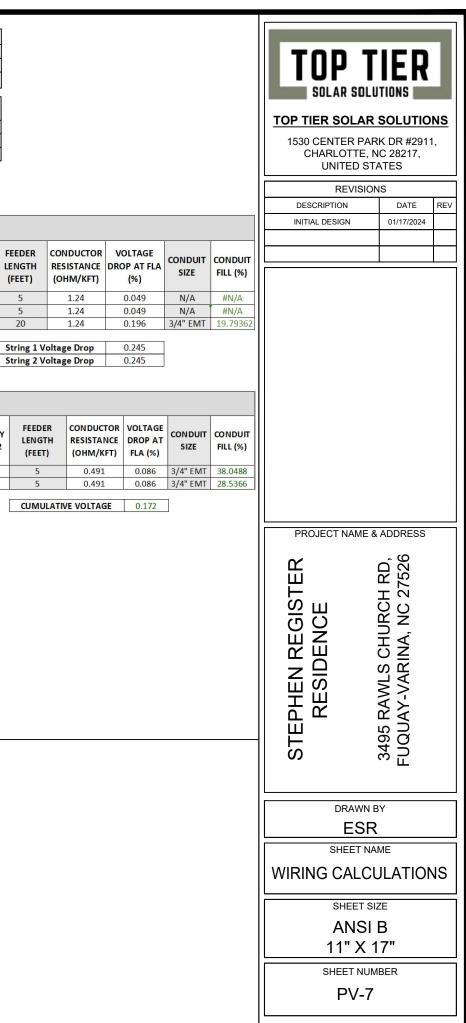
<u>SOLAR N</u>	10DULE SPECIFICATIONS	INVER	TER SPECIFICATIONS	AMBIENT TEMPERATURE SPECS			
		MANUFACTURER / MODEL #	SOLAREDGE: SE10000H-US (240V/10000W)	AMBIENT TEMP (HI	GH TEMP 2%)	38	
MANUFACTURER / MODEL #	MISSION SOLAR: MSE395SX9R 395W MODULE	MANOR ACTORER / MODELE #	INVERTER	RECORD LOW TEM	PERATURE	-9	
		NOMINAL AC POWER	10.000 kW	MODULE TEMPERATURE COEFFICIENT OF Voc		-0.259%/°C	
VMP	36.99V	NOMINAL OUTPUT VOLTAGE	240 VAC				
IMP	10.68A	NOMINAL OUTPUT CURRENT	42.00A	PERCENT OF	NUMBER OF CURRE		
VOC	45.18V			VALUES	CARRYING CONDUCTORS	S IN EMT	
ISC	11.24A			.80	4-6		
TEMP. COEFF. VOC	-0.259%/°C			.70	7-9		
MODULE DIMENSION	75.08"L x 41.50"W x 1.57"D (In Inch)			.50	10-20		

	DC FEEDER CALCULATIONS																	
CIRCUIT ORI	GIN CIRCUIT DESTINATION	VOLTAGE (V)	FULL LOAD AMPS "FLA" (A)	FLA*1.25 (A)	OCPD SIZE (A)	GROUND SIZE	CONDUCTOR SIZE	75°C AMPACITY (A)	AMPACITY CHECK #1	AMBIENT TEMP. (°C)	TOTAL CC CONDUCTO RS IN RACEWAY	90°C AMPACITY (A)	FOR AMBIENT	DERATION FACTOR FOR CONDUCTORS PER RACEWAY NEC 310.15(B)(3)(a)	90°C AMPACITY DERATED (A)	AMPACITY CHECK #2	FEEDER LENGTH (FEET)	CC RE (C
STRING 1	JUNCTION BOX	380	15.00	18.75	20	BARE COPPER #6 AWG	CU #10 AWG	35	PASS	38	2	40	0.91	1	36.4	PASS	5	
STRING 2	JUNCTION BOX	380	15.00	18.75	20	BARE COPPER #6 AWG	CU #10 AWG	35	PASS	38	2	40	0.91	1	36.4	PASS	5	
JUNCTION E	OX INVERTER	380	15.00	18.75	20	CU #10 AWG	CU #10 AWG	35	PASS	38	4	40	0.91	0.8	29.12	PASS	20	

AC FEEDER CALCULATIONS DERATION FACTOR DERATION FACTOR 90°C FULL LOAD 75°C TOTAL CC FEEDER CIRCUIT VOLTAGE FLA*1.25 OCPD CONDUCTOR AMPACITY AMBIENT FOR AMBIENT FOR CONDUCTORS AMPACITY AMPACITY NEUTRAL SIZE **GROUND SIZE** CONDUCTORS 90°C AMPACITY (A) CIRCUIT ORIGIN AMPS "FLA" AMPACITY LENGTH CHECK #1 TEMP. (°C) SIZE (A) TEMPERATURE NEC PER RACEWAY NEC DERATED DESTINATION CHECK #2 (V) (A) SIZE IN RACEWAY (FEET) (A) (A) 310.15(B)(2)(a) 310.15(B)(3)(a) (A) 42 CU #6 AWG 65 INVERTER AC DISCONNECT 240 52.5 60 CU #6 AWG CU #6 AWG PASS 38 2 75 0.91 68.25 PASS 5 1 PASS AC DISCONNECT POI 240 42 52.5 60 CU #6 AWG N/A CU #6 AWG 65 PASS 38 75 0.91 68.25 5

ELECTRICAL NOTES

- 1. ALL EQUIPMENT TO BE LISTED BY UL OR OTHER NRTL, AND LABELED FOR ITS APPLICATION.
- 2. ALL CONDUCTORS SHALL BE COPPER, RATED FOR 600 V AND 90 DEGREE C WET ENVIRONMENT.
- 3. WIRING, CONDUIT, AND RACEWAYS MOUNTED ON ROOFTOPS SHALL BE ROUTED DIRECTLY TO, AND LOCATED AS CLOSE AS POSSIBLE TO THE NEAREST RIDGE, HIP, OR VALLEY.
- WORKING CLEARANCES AROUND ALL NEW AND EXISTING ELECTRICAL EQUIPMENT SHALL COMPLY WITH NEC 110.26. 4.
- 5. DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS AND ACCESSORIES TO FULFILL APPLICABLE CODES AND STANDARDS
- 6. WHERE SIZES OF JUNCTION BOX, RACEWAYS, AND CONDUITS ARE NOT SPECIFIED, THE CONTRACTOR SHALL SIZE THEM ACCORDINGLY.
- ALL WIRE TERMINATIONS SHALL BE APPROPRIATELY LABELED AND READILY VISIBLE. 7.
- 8. MODULE GROUNDING CLIPS TO BE INSTALLED BETWEEN MODULE FRAME AND MODULE SUPPORT RAIL, PER THE GROUNDING CLIP MANUFACTURER'S INSTRUCTION.
- MODULE SUPPORT RAIL TO BE BONDED TO CONTINUOUS COPPER G.E.C. VIA WEEB LUG OR ILSCO GBL-4DBT LAY-IN 9. LUG.
- 10. TEMPERATURE RATINGS OF ALL CONDUCTORS, TERMINATIONS, BREAKERS, OR OTHER DEVICES ASSOCIATED WITH THE SOLAR PV SYSTEM SHALL BE RATED FOR AT LEAST 75 DEGREE C.



PHOTOVOLTAIC POWER SOURCE

EVERY 10' ON CONDUIT & ENCLOSURES

LABEL- 1: <u>LABEL LOCATION:</u> EMT/CONDUIT RACEWAY SOLADECK / JUNCTION BOX CODE REF: NEC 690.31 (D)(2)

ELECTRIC SHOCK HAZARD

TERMINALS ON THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

LABEL- 2: <u>LABEL LOCATION:</u> AC DISCONNECT CODE REF: NEC 690.13(B)

DUAL POWER SUPPLY

SOURCE: UTILITY GRID AND PV SOLAR ELECTRIC SYSTEM

LABEL- 3: <u>LABEL LOCATION:</u> MAIN SERVICE PANEL CODE REF: NEC 705.12(C) & NEC 690.59

SOLAR PV BREAKER:

BREAKER IS BACKFED DO NOT RELOCATE

LABEL-4: <u>LABEL LOCATION:</u> MAIN SERVICE PANEL CODE REF: NEC 705.12(C) & NEC 690.59



OVERCURRENT DEVICE

LABEL- 5:

LABEL LOCATION: MAIN SERVICE PANEL (ONLY IF SOLAR IS BACK-FED) SUBPANEL (ONLY IF SOLAR IS BACK-FED) CODE REF: NEC 705.12(B)(3)(2)

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO SHUT DOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN THE ARRAY

LABEL- 6: <u>LABEL LOCATION:</u> AC DISCONNECT CODE REF: [NEC 690.56(C)(1)(A)]

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

LABEL- 7: <u>LABEL LOCATION:</u> AC DISCONNECT MAIN SERVICE PANEL (ONLY IF SOLAR IS BACK-FED) CODE REF: NEC 690.56(C)(2)

DC DISCONNECT

LABEL- 8: LABEL LOCATION: INVERTER CODE REF: NEC 690.13(B)

AC DISCONNECT PHOTOVOLTAIC SYSTEM POWER SOURCE NOMINAL OPERATING AC VOLATGE 240 V RATED AC OUTPUT CURRENT 42.00 A

LABEL- 9: <u>LABEL LOCATION:</u> AC DISCONNECT CODE REF: NEC 690.54

MAXIMUM VOLTAGE	480 V
MAXIMUM CIRCUIT CURRENT	30.00 A
MAXIMUM RATED OUTPUT CURRENT OF THE CHARGE CONTROLLER OR DC-TO-DC CONVERTER (IF INSTALLED)	

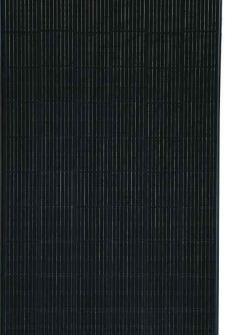
LABEL- 10: <u>LABEL LOCATION:</u> ON THE RIGHT SIDE OF THE INVERTER (PRE-EXISTING ON THE INVERTER) CODE REF: NEC 690.53

TOP TIER					
TOP TIER SOLAR SOLUTIONS					
1530 CENTER PARK DR #2911, CHARLOTTE, NC 28217,					
UNITED STATES					
REVISIONS DESCRIPTION DATE REV					
INITIAL DESIGN 01/17/2024					
PROJECT NAME & ADDRESS					
STEPHEN REGISTER RESIDENCE 3495 RAWLS CHURCH RD, FUQUAY-VARINA, NC 27526					
DRAWN BY ESR					
SHEET NAME WIRING CALCULATIONS					
SHEET SIZE ANSI B 11" X 17"					
SHEET NUMBER PV-8					

MSE PERC 66







FRAME-TO-FRAME WARRANTY

Degradation guaranteed not to exceed 2% in year one and 0.58% annually from years two to 30 with 84.08% capacity guaranteed in year 25. For more information, visit www.missionsolar.com/warranty

CERTIFICATIONS



If you have questions or concerns about certification of our products in your area, please contact Mission Solar Energy.

UL 61730 / IEC 61215 / IEC 61730 / IEC 61701

C-SA2-MKTG-0027 REV 4 03/18/2022

True American Quality True American Brand

MISSION SOLAR

Mission Solar Energy is headquartered in San Antonio, Texas where we manufacture our modules. We produce American, high-quality solar modules ensuring the highest-in-class power output and best-in-class reliability. Our product line is tailored for residential, commercial and utility applications. Every Mission Solar Energy solar module is certified and surpasses industry standard regulations, proving excellent performance over the long term.

Demand the best. Demand Mission Solar Energy.



Certified Reliability

- Tested to UL 61730 & IEC Standards
- PID resistant Resistance to salt mist corrosion

Advanced Technology

- 9 Bushar
- Passivated Emitter Rear Contact
- Ideal for all applications

Extreme Weather Resilience

- Up to 5,400 Pa front load & 3,600 Pa back load
- Tested load to UL 61730 • 40 mm frame

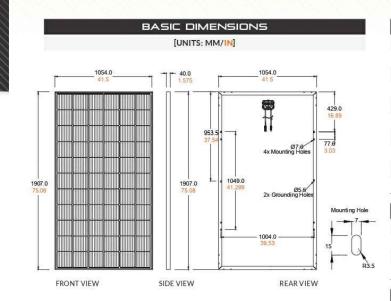
BAA Compliant for Government Projects

 Buy American Act American Recovery & Reinvestment Act



www.missionsolar.com | info@missionsolar.com

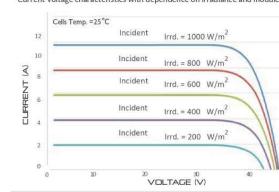
Class Leading 390-400W



CURRENT-VOLTAGE CURVE

MSE3855X9R: 385WP, 66 CELL SOLAR MODULE

Current-voltage characteristics with dependence on irradiance and module temperature



CERTIFICATIONS AND TESTS 61215, 61730, 61701

IEC UL 61730



Mission Solar Energy 8303 S. New Braunfels Ave., San Antonio, Texas 78235

www.missionsolar.com | info@missionsolar.com

Mission Solar Energy reserves the right to make specification changes without notice. C-SA2-MKTG-0027 REV 4 03/18/2022

PRODUCT TYPE	MSE	xxxSX	9R (<mark>xxx =</mark> P	'max)	
Power Output	Pmax	Wp	390	395	400
Module Efficiency		%	19.4	19.7	19.9
Tolerance		%	0/+3	0/+3	0/+3
Short Circuit Current	lsc	А	11.19	11.24	11.31
Open Circuit Voltage	Voc	V	45.04	45.18	45.33
Rated Current	Imp	А	10.63	10.68	10.79
Rated Voltage	Vmp	V	36.68	36.99	37.07
Fuse Rating		А	20	20	20
System Voltage		V	1,000	1,000	1,000



Normal Operating Cell Ten Temperature C Temperature Temperature

OPERAT

Maximum System Volta Operating Temperature Ran Maximum Series Fuse Ratin Fire Safety Classificatio

> Front & Back Loa (UL Standar

Hail Safety Impact Veloci

*Mission Solar Energy uses quality sourced materials that result in a Type 1 fire rating. Please note, the 'Fire Class' Rating is designated for the fully-installed PV system, which includes, but is not limited to, the module, the type of mounting used, pitch and roof composition.

ME	:CH/
Solar Cells	P-ty
Cell Orientation	66 c
Module Dimension	1,90
Weight	48.5
Front Glass	3.2n
Frame	40m
Encapsulant	Ethy
Junction Box	Prot
Cable	1.2n
	Store

Connector

S	HIPPING	INFOR		N
Container Feet	Ship To	Pallet	Panels	390W Bin
53'	Most States	30	780	304.20 kW
Double Stack	CA	26	676	263.64 kW
	PALLE	T [26 PAN	ELS]	
Weight 1,300 lbs. (572 kg)	Height 47.56 in (120.80 cm) (1:	Width 46 in 16.84 cm)	Length 77 in (195.58 cm

MSE PERC 66

ELECTRICAL SPECIFICATION

TEMPERATURE COEFFICIENTS

mperature (NOCT)	43.75°C (±3.7%)
oefficient of Pmax	-0.367%/°C
Coefficient of Voc	-0.259%/°C
e Coefficient of Isc	0.033%/°C

IN	5 CONDITIONS
ge	1,000Vdc
ge	-40°F to 185°F (-40°C to +85°C)
ng	20A
on	Type 1*
ad rd)	Up to 5,400 Pa front and 3,600 Pa back load, Tested to UL 61730
ity	25mm at 23 m/s

ANICAL DATA

pe mono-crystalline silicon

cells (6x11)

07mm x 1,054mm x 40mm

5 lbs. (22 kg)

mm tempered, low-iron, anti-reflective

mm Anodized

ylene vinyl acetate (EVA)

tection class IP67 with 3 bypass-diodes

m, Wire 4mm2 (12AWG)

Staubli PV-KBT4/6II-UR and PV-KST4/6II-UR. MC4, Renhe 05-8

www.missionsolar.com | info@missionsolar.com

TOP TIER SOLAR SOLUTIO

TOP TIER SOLAR SOLUTIONS

1530 CENTER PARK DR #2911, CHARLOTTE, NC 28217, UNITED STATES

REVISIONS						
DESCRIPTION	DATE	REV				
INITIAL DESIGN	01/17/2024					

PROJECT NAME & ADDRESS

ЦЦ EPHEN REGISTI RESIDENCE ST

3495 RAWLS CHURCH RD, FUQUAY-VARINA, NC 27526

DRAWN BY

ESR

SHEET NAME EQUIPMENT **SPECIFICATION**

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

PV-9

CERTIFICATE OF COMPLIANCE

Certificate Number Report Reference Date

E364743 E364743-20201208 2021-August-04

Mission Solar Energy LLC Issued to: 8303 S New Braunfels Ave San Antonio TX, 78235 US

This is to certify that representative samples of PHOTOVOLTAIC MODULES AND PANELS WITH SYSTEM VOLTAGE RATINGS OVER 600 VOLTS

See Addendum Page for Product Designation(s)

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

UL 61730-1, Photovoltaic (PV) Module Safety Qualification -Standard(s) for Safety: Part 1: Requirements for Construction

> UL 61730-2, Photovoltaic (PV) Module Safety Qualification -Part 2: Requirements for Testing

CSA C22.2 No. 61730-2:2019, Photovoltaic (PV) Module Safety Qualification - Part 2: Requirements for Testing

Additional Information: See the UL Online Certifications Directory at https://ig.ulprospector.com for additional information

This Certificate of Compliance does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

Any information and documentation in volving. UL Mark cervices are provided on behalf of UL LLC (UL) or any authorized licences of UL. Forque stons, pleace controtalizational UL Customer Bervice Representative at http://ulcom/abou/bi/docations/

rioan Carl loation Program

Bampley



CERTIFICATE OF COMPLIANCE

Certificate Number Report Reference

E364743 E364743-20201208 Date 2021-August-04

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

Photovoltaic Modules and Panels with System Voltage Ratings Over 600 Volts (QIIA) Models:

Model	Where XXX is wattage
MSEXXXSX6S, may be followed by -IV	where XXX is 405-425
MSEXXXSX6W, may be followed by -IV	where XXX is 405-425
MSEXXXSX6Z, may be followed by -IV	where XXX is 405-425
MSEXXXSX5R , may be followed by -IV	where XXX is 375-390
MSEXXXSX5K, may be followed by -IV	where XXX is 335-355
MSEXXXSX5T, may be followed by -IV	where XXX is 330-350
MSEXXXSX9W, may be followed by -IV	where XXX is 420-440
MSEXXXSX9Z, may be followed by -IV	where XXX is 415-435
MSEXXXSX9R , may be followed by -IV	where XXX is 380-400
MSEXXXSX9K, may be followed by -IV	where XXX is 345-365
MSEXXXSX9T, may be followed by -IV	where XXX is 340-360

-IV indicates Type 4 module

Bamples merican Caril loation Proora

Any information and documentation in volving. UL Mark cervices are provided on behalf of ULLIC (UL) or any authorized licences of UL. For questions, pleace controtational UL Customer Bervice Representative at http://ulcom/aboutul/locations/

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TOP TIER SOLAR SOLUTIONS

1530 CENTER PARK DR #2911, CHARLOTTE, NC 28217, UNITED STATES

REVISIONS						
DESCRIPTION	DATE	REV				
INITIAL DESIGN	01/17/2024					

PROJECT NAME & ADDRESS

EPHEN REGISTER RESIDENCE ST

3495 RAWLS CHURCH RD, FUQUAY-VARINA, NC 27526

DRAWN BY

ESR

SHEET NAME

EQUIPMENT

SPECIFICATION

SHEET SIZE

ANSI B

11" X 17"

SHEET NUMBER

PV-10

Power Optimizer For Residential Installations

S440, S500



POWER \bigcirc PTIMIZ フ

Enabling PV power optimization at the module level

- Specifically designed to work with SolarEdge residential inverters
- / Detects abnormal PV connector behavior, preventing potential safety issues*
- Module-level voltage shutdown for installer and firefighter safety
- Superior efficiency (99.5%)

* Functionality subject to inverter model and firmware version

- / Mitigates all types of module mismatch loss, from manufacturing tolerance to partial shading
- Faster installations with simplified cable management and easy assembly using a single bolt
- Flexible system design for maximum space utilization 1
- / Compatible with bifacial PV modules

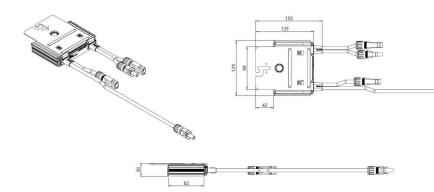
/ Power Optimizer For Residential Installations S440, S500

	S440	S500	UNI	
_				
Rated Input DC Power ^(I)	440	500	W	
Absolute Maximum Input Voltage (Voc)	60		Vdc	
MPPT Operating Range	8 - 60		Vdc	
Maximum Short Circuit Current (Isc) of Connected PV Module	14.5	15	Adc	
Maximum Efficiency	99.5		%	
Weighted Efficiency	98.6		%	
Overvoltage Category	Ш			
OUTPUT DURING OPERATION				
Maximum Output Current	15		Adc	
Maximum Output Voltage	60		Vdc	
OUTPUT DURING STANDBY (POWER OPTIMIZER DISC	ONNECTED FROM INVERTER OR II	NVERTER OFF)		
Safety Output Voltage per Power Optimizer	1			
STANDARD COMPLIANCE				
EMC	FCC Part 15 Class B, IEC61000-6-2, IEC61000-6-3, CISPR11, EN-55011			
Safety	IEC62109-1 (class II safety), UL1741			
Material	UL94 V-0, UV I	Resistant		
RoHS	Yes			
Fire Safety	VDE-AR-E 2100-7	712:2013-05		
INSTALLATION SPECIFICATIONS				
Maximum Allowed System Voltage	1000		Vdc	
Dimensions (W x L x H)	129 x 155 ;	x 30	mm	
Weight (including cables)	655 / 1.	5	gr/lt	
Input Connector	MC4 ⁽²⁾	1		
Input Wire Length	0.1		m	
Output Connector	MC4			
Output Wire Length	(+) 2.3, (-)	0.10	m	
Operating Temperature Range ⁽³⁾	-40 to +	85	°C	
Protection Rating	IP68 / NEM	1A6P		
Relative Humidity	0 - 100			

(2) For other connector types please contact SolarEdge
 (3) For ambient temperature above + 70°C / +158°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		Single Phase HD-Wave	Three Phase	Three Phase for 277/480V Grid	
Minimum String Length (Power Optimizers)	S440, S500	8	16	18	
Maximum String Length (Power (Optimizers)	25		50	
Maximum Nominal Power per St	ring ⁽⁴⁾	5700	11250(5)	12750(6)	W
Parallel Strings of Different Lengt	hs or Orientations		Yes		

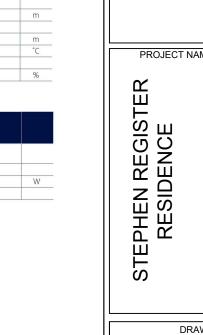
(4) If the inverters rated AC power ≤ maximum nominal power per string, then the maximum power per string will be able to reach up to the inverters maximum input DC power Refer to: https://www.solaredge.com/sites/default/files/se-power-optimizer-single-string-design-application-note.pdf
 (5) For the 230/400V grid: it is allowed to install up to 13,500W per string when the maximum power difference between each string is 2,000W
 (6) For the 271/400V grid: it is allowed to install up to 13,000W per string when the maximum power difference between each string is 2,000W
 (7) It is not allowed to mix 5-series and P-series Power Optimizers in new installations



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solaredge.com



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TOP TIER SOLAR SOLUTIONS

1530 CENTER PARK DR #2911, CHARLOTTE, NC 28217, UNITED STATES

REVISIONS						
DESCRIPTION	DATE	REV				
INITIAL DESIGN	01/17/2024					

PROJECT NAME & ADDRESS

3495 RAWLS CHURCH RD, FUQUAY-VARINA, NC 27526

DRAWN BY

ESR

SHEET NAME EQUIPMENT

SPECIFICATION SHEET SIZE

> ANSI B 11" X 17"

SHEET NUMBER

PV-11

CE RoHS

SolarEdge Home Hub Inverter

For North America

SE3800H-US / SE5700H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US⁽¹⁾



Optimized battery storage with HD-Wave technology

- Record-breaking 99% weighted efficiency with 200% DC oversizing
- I Small, lightweight, and easy to install
- Modular design, future ready with optional upgrades to:
 - DC-coupled storage for full or partial home 1 backup
 - Built-in consumption monitoring 1
 - Direct connection to the SolarEdge Home EV Charger

Multi-inverter, scalable storage solution, with enhanced battery power up to 10kW

HOME

BACKUP

- Integrated arc fault protection and rapid shutdown for NEC 2014 – 2023, per article 690.11 and 690.12
- I Embedded revenue grade production data, ANSI C12.20 Class 0.5

/ SolarEdge Home Hub Inverter For North America

SE3800H-US / SE5700H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US⁽¹⁾

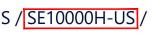
Applicable to inverters with part number	SEXXXXH-USMNBBXXX / SEXXXXH-USSNBBXXX						
	SE3800H-US	SE5700H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	Unit
OUTPUT – AC ON GRID							
Rated AC Power	3800 @ 240V 3300 @ 208V	5760 @ 240V 5000 @ 208V	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	W
Maximum AC Power Output	3800 @ 240V 3300 @ 208V	5760 @ 240V 5000 @ 208V	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208	W
AC Output Voltage (Nominal)			208 .	/ 240			Vac
AC Output Voltage (Range)			183 -	- 264			Va
AC Frequency Range (min - nom - max)			59.3 - 60	0 – 60.5 ⁽²⁾			Hz
Maximum Continuous Output Current @ 240V	16	24	25	32	42	47.5	A
Maximum Continuous Output Current @ 208V	16	24	24	-	-	48	A
GFDI Threshold				1		23	A
Total Harmonic Distortion (THD)				3			%
Power Factor			1, adjustable				10
Utility Monitoring, Islanding Protection, Country Configurable Thresholds				es			
Charge Battery from AC (if allowed)			Υ.	es			
Typical Nighttime Power Consumption			<i>p</i>	2.5			W
OUTPUT – AC BACKUP ⁽³⁾	1						
Rated AC Power in Backup Operation ⁽⁴⁾	7600	5760	6000	7600	10000	11400	W
		0.000		11400*	11400*		
AC L-L Output Voltage Range in Backup				- 264			Va
AC L-N Output Voltage Range in Backup	105 – 132				Va		
AC Frequency Range in Backup (min - nom - max)		·	55 - 6	0 - 65			H:
Maximum Continuous Output Current in Backup Operation	32	24	25	32 47.5	42 47.5	47.5	A
GFDI				1			A
THD			<	5			%
OUTPUT – SOLAREDGE HOME EV CHA	RGER AC						
Rated AC Power			96	00			W
AC Output Voltage Range			211 -	- 264			Va
On-Grid AC Frequency Range (min - nom - max)				60 - 60.5			Ha
Maximum Continuous Output Current @240V (grid, PV and battery)				10			Aa
INPUT – DC (PV AND BATTERY)							1
Transformer-less, Ungrounded			Υ.	es			
Max Input Voltage			4	80			Vd
Nom DC Input Voltage	7			80			Vd
Reverse-Polarity Protection				es			
Ground-Fault Isolation Detection				ensitivity			
INPUT – DC (PV)	3						
Maximum DC Power @ 240V	7600	11520	12000	15200	20000	22800	W
and a second secon		59		-	-		W
Maximum DC Power @ 208V	6600	10000	10000	- 20	200	20000	
Maximum Input Current ⁽⁵⁾ @ 240V	20	16	16.5	30	- 30	30	Ad
Maximum Input Current ⁽⁵⁾ @ 208V	9	13.5	13.5	-	Ξ.	27	Ad
Max. Input Short Circuit Current			4	15			
Maximum Inverter Efficiency			99	9.2			%
	99 @ 240V 99 99 240V 98.5 @ 208V						

* Supported with PN SExxxxH-USMNxxxxxx.

(1) These specifications apply to inverters with part numbers SExxxxH-USMNxxxxx or SExxxxH-USSNxxxxxx and connection unit model number DCD-1PH-US-PxH-F-x.

(2) For other regional settings please contact SolarEdge support.
 (3) Not designed for standalone applications and requires AC for commissioning. Backup functionality is only supported for 240V grid.
 (4) Rated AC power in Backup Operation is valid for installations with multiple inverters. For a single backup inverter operation, rated AC power in Backup is 90% of the value stated.
 (5) A higher current source may be used; the inverter will limit its input current to the values stated.





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1530 CENTER PARK DR #2911, CHARLOTTE, NC 28217, UNITED STATES

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PV-1	2	

/ SolarEdge Home Hub Inverter

For North America

SE3800H-US / SE5700H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US⁽¹⁾

Applicable to inverters with part number	SEXXXXH-USMNBBXXX / SEXXXXH-USSNBBXXX						
	SE3800H-US	SE5700H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	Units
OUTPUT – DC (BATTERY)							
Supported Battery Types			SolarEdge Home Ba	attery, LG RESU Prim	1e		
Number of Batteries per Inverter			SolarEdge Home Ba				
Continuous Power ⁽⁶⁾	7600 @ 240V 3800 @ 208V	5760 @ 240V 5000 @ 208V	6000	11.	400	11400 @ 240V 10000 @ 208V	W
Peak Power ⁽⁶⁾	7600 @ 240V 3800 @ 208V	5760 @ 240V 5000 @ 208V	6000	11.	400	11400 @ 240V 10000 @ 208V	W
Max Input Current	20			26.5			Adc
2-pole Disconnection			Up to inverter rat	ted backup power			
SMART ENERGY CAPABILITIES							
Consumption Metering			Buil	t-in ⁽⁷⁾			
Backup & Battery Storage	Wit	h Backup Interface	(purchased separate	ely) for service up to	200A; up to 3 inve	rters	
EV Charging		Direc	t connection to Sola	arEdge Home EV Cl	harger		
ADDITIONAL FEATURES							
Supported Communication Interfaces		RS485, Ethernet, Cellular ^(8, 9) , Wi-Fi ⁽⁹⁾ , SolarEdge Home Network					
Revenue Grade Metering, ANSI C12.20			Buil	t-in ⁽⁷⁾			
Integrated AC, DC and Communication Connection Unit			Ŷ	′es			
Inverter Commissioning	With	the SetApp mobile	application using b	uilt-in Wi-Fi Access	Point for local conn	ection	
DC Voltage Rapid Shutdown (PV and Battery)		Yes, accordi	ing to NEC 2014 – 2	023 per article 690.	11 and 690.12		
STANDARD COMPLIANCE							
Safety		UL1741, UL1741 SA,	UL1741 SB, UL1741 P	PCS, UL1699B, UL199	98, UL9540, CSA 22.	2	
Grid Connection Standards		IEEE1	547-2018, Rule 21, F	Rule 14H, CSA C22.3	No. 9		
Emissions			FCC part	15 class B			
INSTALLATION SPECIFICATIONS							
AC Output and EV AC Output Conduit Size / AWG Range			1" maximum	n / 14-4 AWG			
DC Input (PV and Battery) Conduit Size / AWG Range			1" maximum	n / 14-6 AWG		-	
Dimensions with Connection Unit (H x W x D)	17.7 x	14.6 x 6.8 / 450 x 37	0 x 174	17.7 x 14.6 x 6.8 / 450 x 370 x 174** 21.06 x 14.6 x 8.2 /	21.06 x 14.6 x 7.3 / 535 x 370 x 185** 535 x 370 x 208***	21.06 x 14.6 x 8.2 / 535 x 370 x 208***	in / mm
Weight with Connection Unit		30.8/14		30.8 / 14** 44.9 /	41.7 / 18.9** 20.3***	44.9 / 20.3***	lb / kg
Noise	< 50					dBA	
Cooling			Natural C	Convection			
Operating Temperature Range			-40 to +140 /	/ -40 to +60 ⁽¹⁰⁾			°F/°(
Protection Rating		NEMA 4X					

** Supported with PN SEXXXXH-USSNBBXX4 or SEXXXXH-USMNBBXX4.

*** Supported with PN SEXXXXH-USSNBBXX5 or SEXXXXH-USMNBBXX5.

(6) Discharge power is limited up to the inverter rated AC power for on-grid and backup applications, as well as up to the installed batteries' rating.
(7) For consumption metering current transformers should be ordered separately: SECT-SPL-22SA-T-20 or SEACT0750-400NA-20 units per box. Revenue grade metering is only for production metering.
(8) Information concerning the Data Plan's terms & conditions is available in the following link: <u>SolarEdge Communication Plan Terms and Conditions</u>.
(9) The part number SEXXXXH-USXNBBXXX only supports the Wi-Fi communication interface, and the part number SEXXXH-USXNBBLXX only supports the cellular communication interface.
(10) Full power up to at least 50°C / 122°F; for power de-rating information refer to the <u>Temperature Derating Technical Note for North America</u>.

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PROJECT NAME & RESIDENCE RESIDENCE BRAWN	3495 RAWLS CHURCH RD, FUQUAY-VARINA, NC 27526					
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SHEET S ANSI 11" X	В					
SHEET NUM						





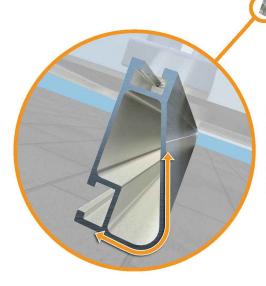
XR Rail Family

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





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.



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



Rail Selection

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

Lo	ad			Rail	Span
Snow (PSF)	Wind (MPH)	4'	5' 4"	6'	8'
	100				
None	120				
None	140	XR10		XR100	
	160				
	100				
10.00	120				
10-20	140				
	160				
20	100				
30	160				
40	100				
40	160				
50-70	160				
80-90	160				

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R1000					
1000 is a heavywe ar mounting rails. I reme climates and re for commercial	t's built to handle spans 12 feet or				
12' spanning capab Extreme load capa Clear anodized fini nternal splices ava	bility sh				
es and standa	ards. Values are				
e of 7 to 27 d	egrees and Mear			ME & ADDRESS	
tions.					
		í -	EGISTER	3495 RAWLS CHURCH RD, =UQUAY-VARINA, NC 27526	
10'	12'		Ш Н	Н F 275	
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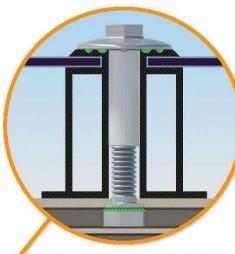


UFO Family of Components

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 Attachments

The bonding bolt attaches

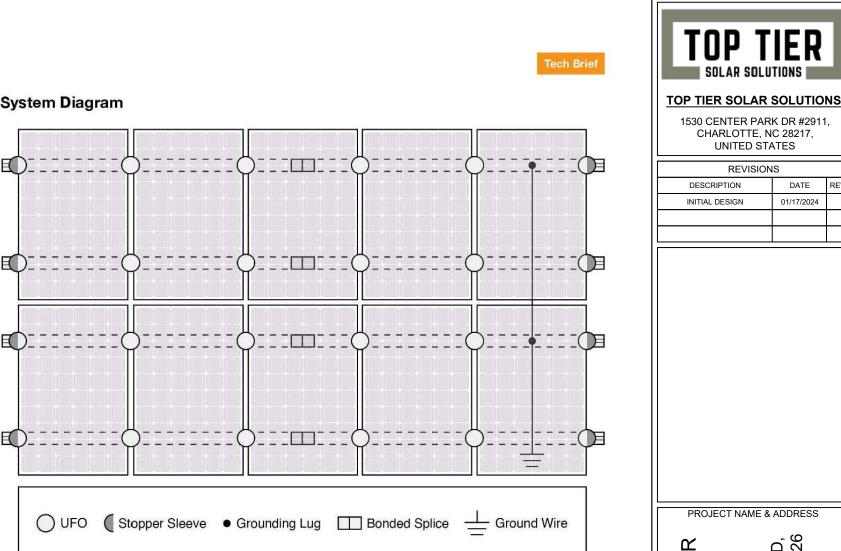
rail. It is installed with the

system

and bonds the L-foot to the

same socket as the rest of the

System Diagram



Q 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

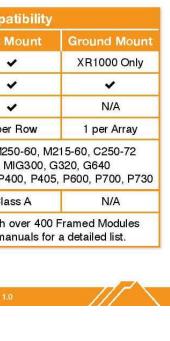
	Cross-System	Comp
Feature	Flush Mount	Tilt I
XR Rails	~	
UFO/Stopper	~	
Bonded Splice	~	
Grounding Lugs	1 per Row	1 pe
Microinverters & Power Optimizers	Enphase - M250 Darfon - M SolarEdge - P300,	IIG240, I
Fire Rating	Class A	Cla
Modules	Tested or Evaluated with Refer to installation m	

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.



REVISIONS DATE REV 01/17/2024 **PROJECT NAME & ADDRESS** 3495 RAWLS CHURCH RD, FUQUAY-VARINA, NC 27526 STEPHEN REGISTER RESIDENCE DRAWN BY ESR SHEET NAME EQUIPMENT **SPECIFICATION** SHEET SIZE ANSI B

> 11" X 17" SHEET NUMBER

> > PV-15

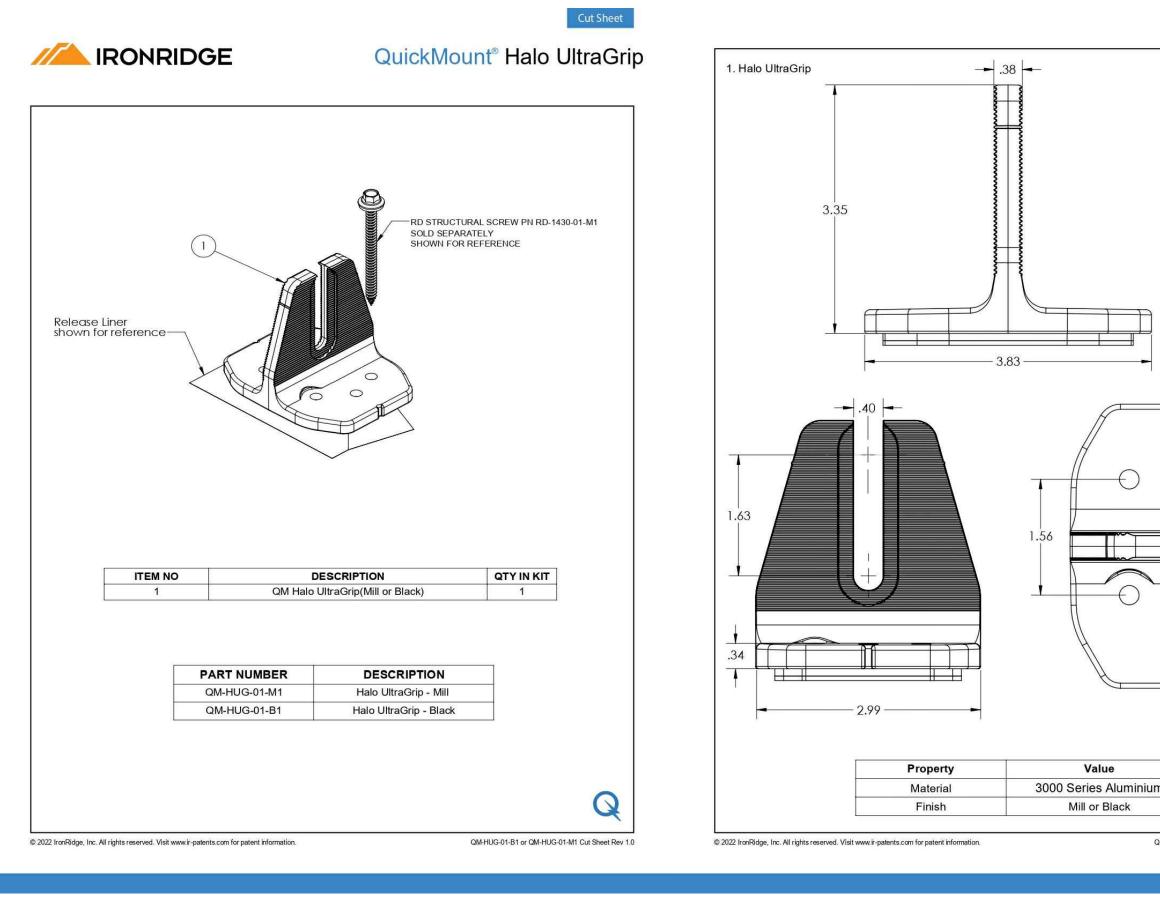
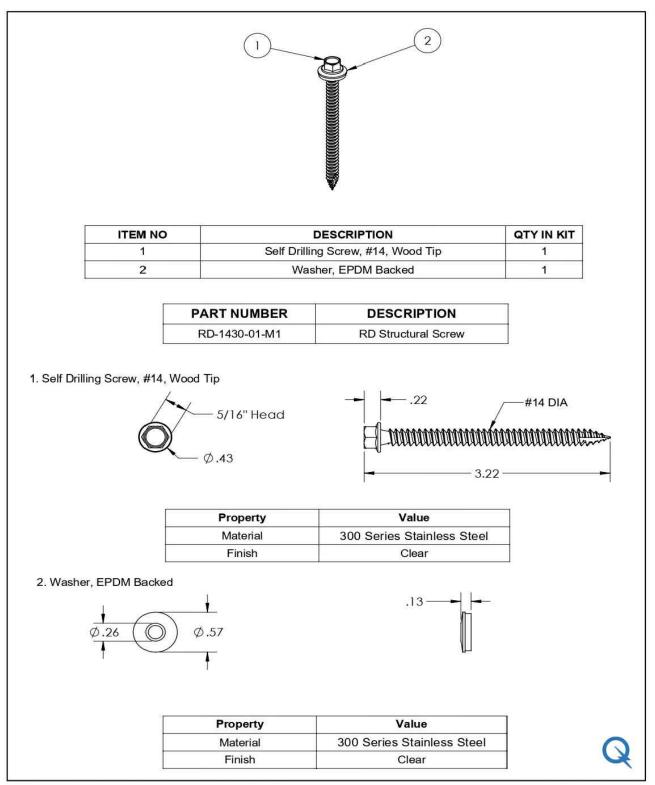


Image: Solar Solutions 1500 CENTER PARK DR #2911, CHARLOTTE, NO. 2824 Image: Solar Solutions Image: Solar S	Cut Sheet	TOP T SOLAR SOLU	
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IRONRIDGE QuickMount® RD Structural Screw



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QM-RD-1430-01-M1 Cut Sheet Rev 1.0

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