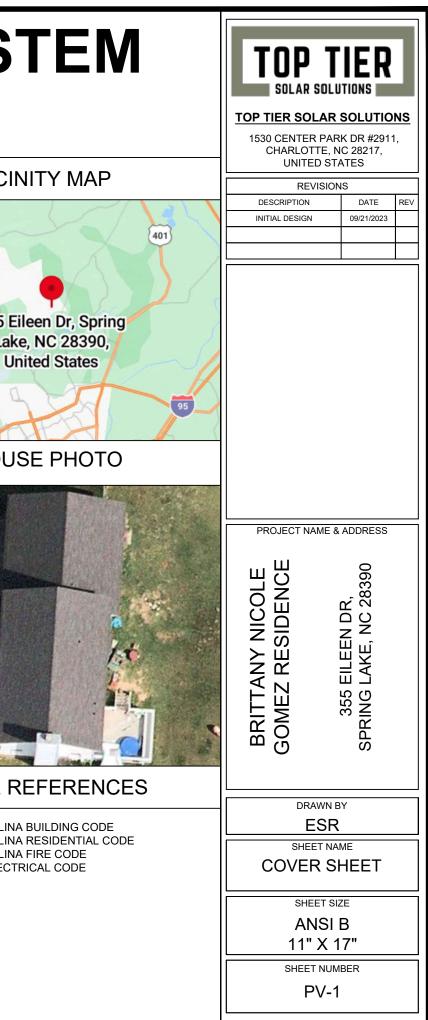
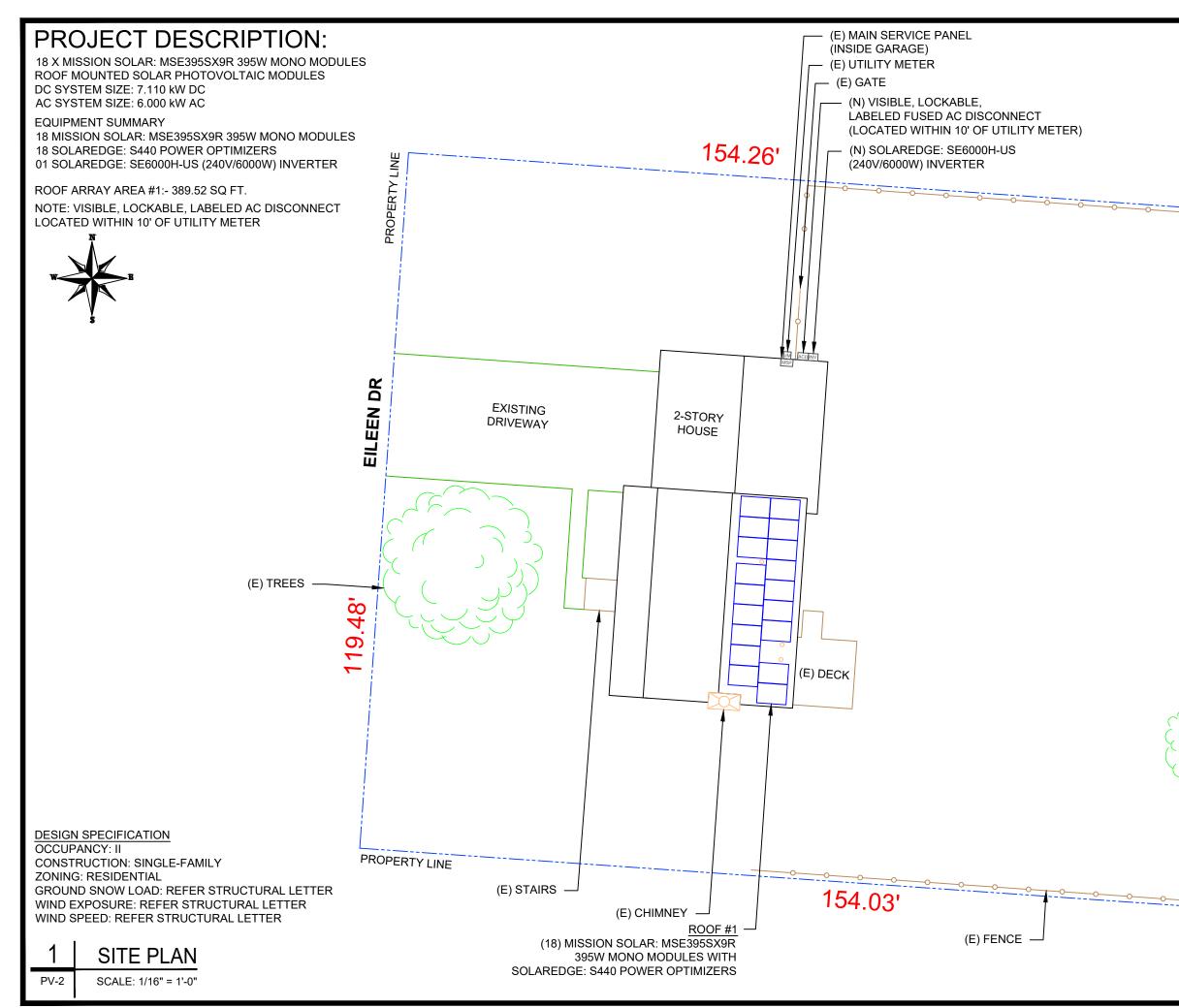
PHOTOVOLTAIC ROOF MOUNT SYSTEM

18 MODULES-ROOF MOUNTED - 7.110 kW DC, 6.000 kW AC

355 EILEEN DR, SPRING LAKE, NC 28390

PI	ROJECT DATA	GENERAL NOTES	VICI
PROJECT ADDRESS OWNER: DESIGNER: SCOPE: 7.110 KW I SOLAR PV	355 EILEEN DR, SPRING LAKE, NC 28390 BRITTANY NICOLE GOMEZ ESR DC ROOF MOUNT (SYSTEM WITH	 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. 	355 E Lak
PV MODUL 18 SOLAR 01 SOLAR INVERTER	EDGE: S440 POWER OPTIMIZERS AND EDGE: SE6000H-US (240V/6000W) R	 HEIGHT OF THE AC DISCONNECT SHALL NOT EXCEED 6'-7" PER NEC CODE 240.24. A GROUNDING ELECTRODE SYSTEM IN ACCORDANCE WITH CEC 690.47 AND 250.50 THROUGH 60 AND 250-166 SHALL BE PROVIDED. PER NEC GROUNDING ELECTRODE SYSTEM OF EXISTING BUILDING MAY BE USED AND BONDED TO THE SERVICE ENTRANCE. IF EXISTING SYSTEM IS INACCESSIBLE OR INADEQUATE A SUPPLEMENTAL GROUNDING ELECTRODE WILL BE USED AT THE INVERTER LOCATION CONSISTING OF A UL LISTED 8 FT. GROUND ROD WITH ACORN CLAMP. GROUNDING ELECTRODE CONDUCTORS SHALL BE NO LESS THAN #8 AWG AND NO LARGER THAN #6 AWG COPPER AND BONDED TO THE EXISTING GROUNDING ELECTRODE TO PROVIDE FOR A COMPLETE SYSTEM. 	HOU
ZONING: HARNE UTILITY: SOUTH	ETT COUNTY I RIVER EMC	 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 PERMANENTLY AND COMPLETELY HELD OFF THE ROOF SURFACE. 	
PV-2SITEPV-3ROCPV-4ELEPV-5STRPV-6ELEPV-7WIRPV-8LAB	/ER SHEET E PLAN DF PLAN & MODULES CTRICAL PLAN UCTURAL DETAIL CTRICAL LINE DIAGRAM UNG CALCULATIONS	 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 PROPERLY GROUNDED AND BONDED IN ACCORDANCE WITH NEC ARTICLE 250. 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 NEC 690.12 	CODE F
SIGNATU	<u>RE</u>	 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)] ALL WIRING METHODS SHALL BE IN ACCORDANCE WITH NEC 690.31 WORK CLEARANCES AROUND ELECTRICAL EQUIPMENT WILL BE MAINTAINED PER NEC 110.26(A)(1), 110.26(A)(2) AND 110.26(A)(3). ROOFTOP MOUNTED PHOTOVOLTAIC PANELS AND MODULES SHALL BE TESTED, LISTED & IDENTIFIED IN ACCORDANCE WITH UL1703 ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT EXPANSION JOINTS AND ANCHOR CONDUIT RUNS AS REQUIRED PER NEC. 	2018 NORTH CAROLIN 2018 NORTH CAROLIN 2018 NORTH CAROLIN 2017 NATIONAL ELECT



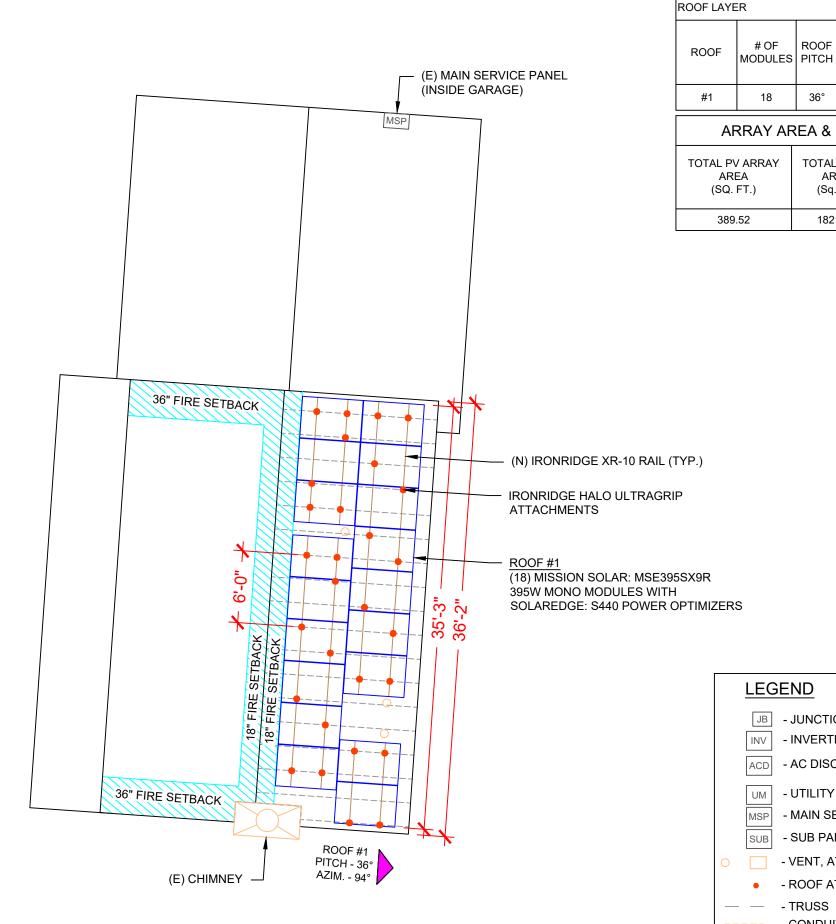


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119.10	BRITTANY NICOLE GOMEZ RESIDENCE	355 EILEEN DR, SPRING LAKE, NC 28390 BRING LAKE, NC 28390 BRING LAKE, NC 28390 BRING LAKE, NC 28390 BRING LAKE
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PROPERTY LINE	SITE PL	AN
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	ANSI 11" X 1	
	SHEET NUM	
	PV-2	



NUMBER OF MODULES = 18 MODULES MODULE TYPE = MISSION SOLAR: MSE395SX9R 395W MONO MODULES MODULE WEIGHT = 48.5 LBS / 22.0 kg. MODULE DIMENSIONS = 75.08" x 41.50" = 21.64 SF

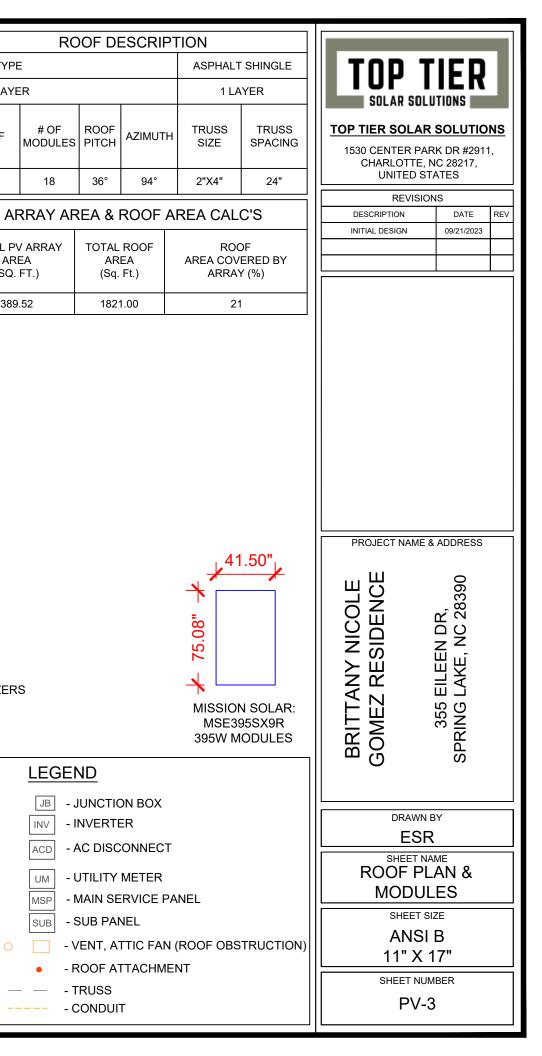


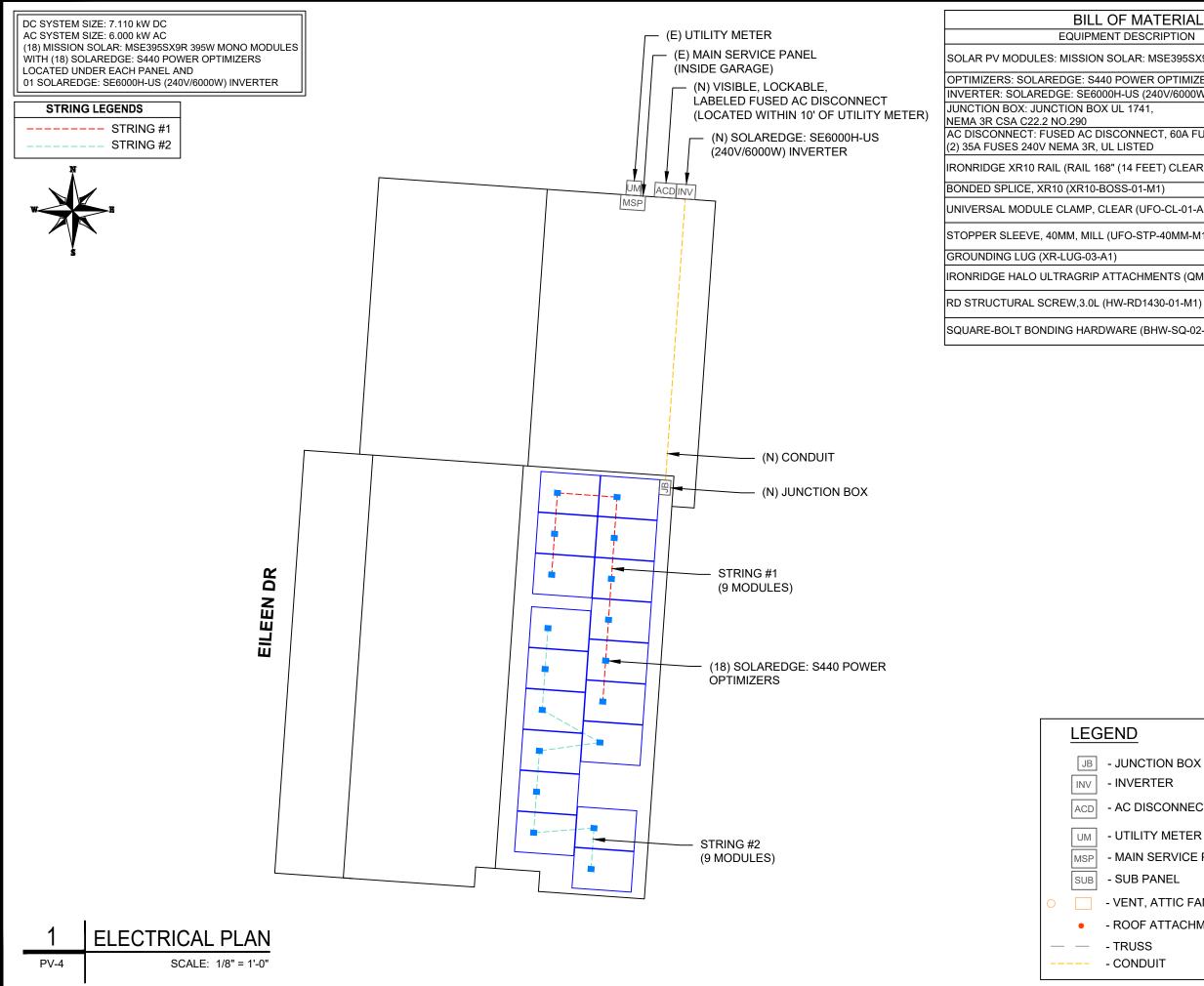


ROOF TYPE

ROOF PLAN & MODULES

SCALE: 1/8" = 1'-0"





ATERIALS	
CRIPTION	QTY
MSE395SX9R 395W MODULE	18
R OPTIMIZERS	18
240V/6000W) INVERTER	01
1,	1
ECT, 60A FUSED, D	1
EET) CLEAR) (XR-10-168A)	12
M1)	4
FO-CL-01-A1)	44
FP-40MM-M1)	16
	4
MENTS (QM-HUG-01-M1)	30
430-01-M1)	60
	30



TOP TIER SOLAR SOLUTIONS

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

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INITIAL DESIGN	09/21/2023										
PROJECT NAME & ADDRESS											
111											

BRITTANY NICOLE GOMEZ RESIDENCE 355 EILEEN DR, SPRING LAKE, NC 28390 DRAWN BY ESR SHEET NAME ELECTRICAL PLAN SHEET SIZE ANSI B 11" X 17" SHEET NUMBER PV-4

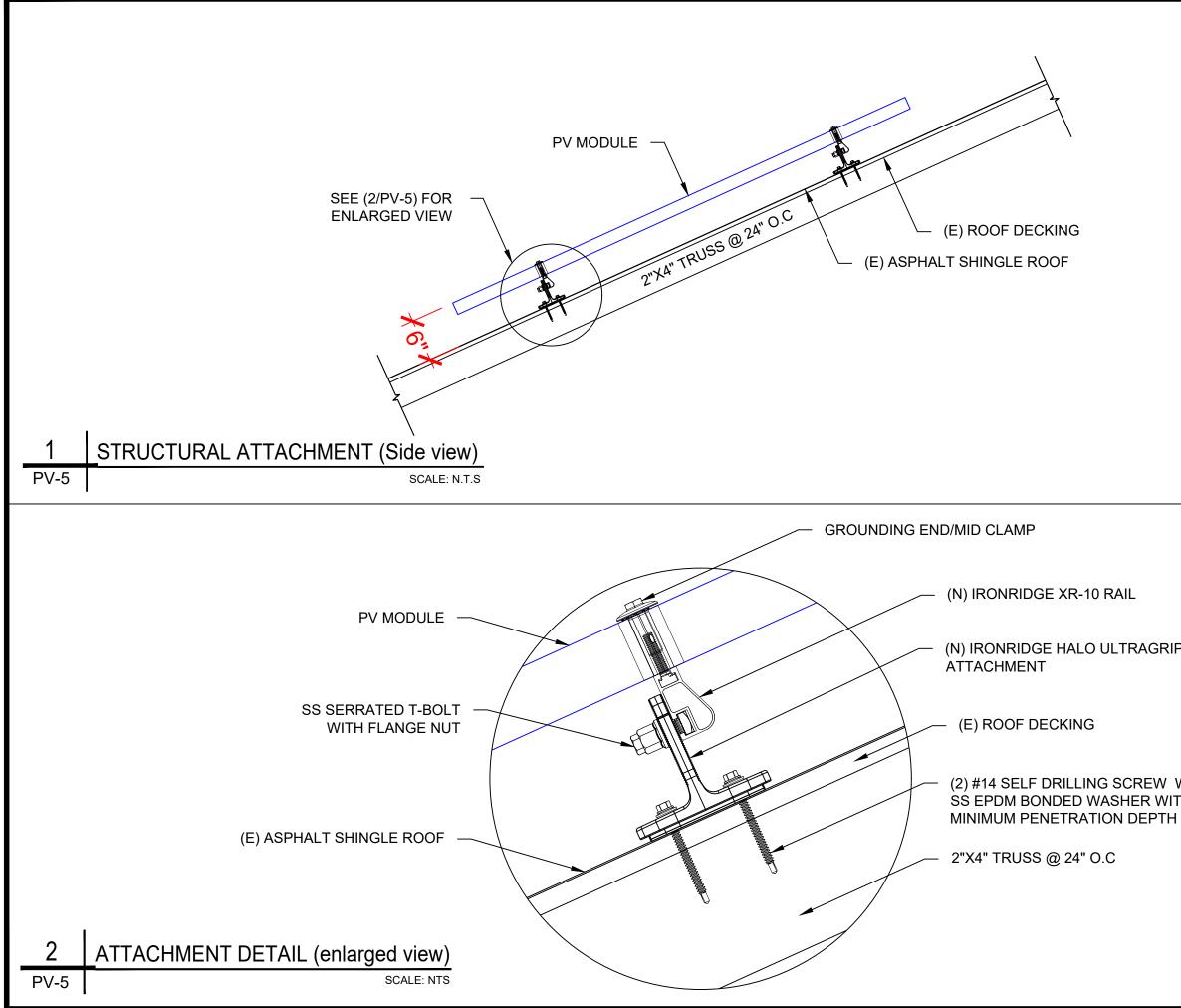
- AC DISCONNECT

- UTILITY METER

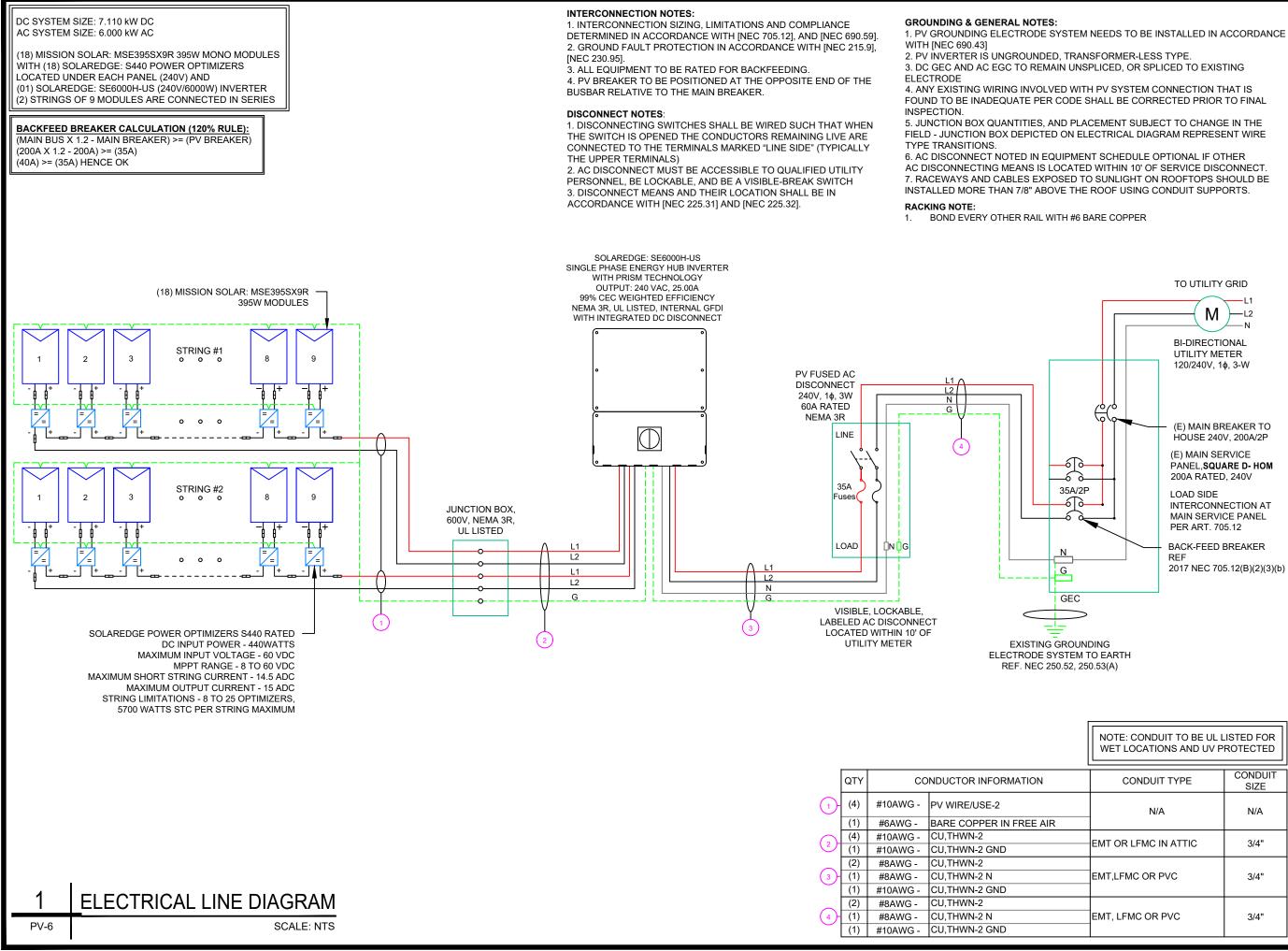
- MAIN SERVICE PANEL

- VENT, ATTIC FAN (ROOF OBSTRUCTION)

- ROOF ATTACHMENT



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5	BRITTANY NICOLE GOMEZ RESIDENCE	355 EILEEN DR, SPRING LAKE, NC 28390					
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ΓΗ Α ΟF 2"	DRAWN BY ESR SHEET NAME STRUCTURAL DETAIL						
	SHEET SIZ						
	ANSI 11" X 1						
	SHEET NUM	BER					
	PV-5						



TOP TIER SOLAR SOLUTIONS TOP TIER SOLAR SOLUTIONS 1530 CENTER PARK DR #2911, CHARLOTTE, NC 28217, UNITED STATES REVISIONS DESCRIPTION DATE REV INITIAL DESIGN 09/21/2023 TO UTILITY GRID Μ —L2 **BI-DIRECTIONAL** UTILITY METER 120/240V, 1ø, 3-W (E) MAIN BREAKER TO HOUSE 240V, 200A/2P (E) MAIN SERVICE PANEL, SQUARE D- HOM 200A RATED, 240V **PROJECT NAME & ADDRESS** LOAD SIDE INTERCONNECTION AT MAIN SERVICE PANEL 5 EILEEN DR, 5 LAKE, NC 28390 PER ART. 705.12 Ш SIDENCE **BRITTANY NICOL** BACK-FEED BREAKER REF 2017 NEC 705.12(B)(2)(3)(b) ШК GOMEZ 355 I SPRING L NOTE: CONDUIT TO BE UL LISTED FOR DRAWN BY WET LOCATIONS AND UV PROTECTED ESR CONDUIT CONDUIT TYPE SHEET NAME SIZE ELECTRICAL LINE DIAGRAM N/A N/A SHEET SIZE EMT OR LFMC IN ATTIC 3/4" ANSI B 11" X 17" EMT, LFMC OR PVC 3/4" SHEET NUMBER EMT, LFMC OR PVC 3/4" PV-6

SOLAR	MODULE SPECIFICATIONS		INVERTER	R SPECIFICATIONS	AMBIENT TEMPERATURE SPECS			
	MISSION SOLAR: MSE395SX9R 395W MODULE	MANUFACTURER	MODEL #	SOLAREDGE: SE6000H-US (240V/6000W) INVERTER		AMBIENT TEMP (HIGH TEMP 2%) RECORD LOW TEMPERATURE	38° -11°	
		NOMINAL AC POW	'ER	6.000 kW		MODULE TEMPERATURE COEFFICIENT OF Voc	-0.259%/°C	
) (A ID		NOMINAL OUTPUT VOLTAGE NOMINAL OUTPUT CURRENT		240 VAC 25.00A				
VMP	36.99V							
IMP	10.68A				1			
VOC	45.18V	PERCENT OF	-	R OF CURRENT				
ISC	11.24A	VALUES	CARRYING C	CONDUCTORS IN EMT				
TEMP. COEFF. VOC	-0.259%/°C	.80		4-6				
		.70		7-9				
MODULE DIMENSION	75.08"L x 41.50"W x 1.57"D (In Inch)	.50		10-20				

	AC FEEDER CALCULATIONS																	
CIRCUIT ORIGIN	CIRCUIT DESTINATION	VOLTAGE (V)	FULL LOAD AMPS "FLA" (A)	FLA*1.25 (A)	OCPD SIZE (A)	NEUTRAL SIZE	GROUND SIZE	CONDUCTOR SIZE	75°C AMPACITY (A)	AMPACITY CHECK #1	AMBIENT TEMP. (°C)	TOTAL CC CONDUCTORS IN RACEWAY	90°C AMPACITY (A)	FOR AMBIENT	DERATION FACTOR FOR CONDUCTORS PER RACEWAY NEC 310.15(B)(3)(a)	AMPACITY	AMPACITY CHECK #2	IFNGTH
INVERTER	AC DISCONNECT	240	25	31.25	35	CU #8 AWG	CU #10 AWG	CU #8 AWG	50	PASS	38	2	55	0.91	1	50.05	PASS	5
AC DISCONNECT	POI	240	25	31.25	35	CU #8 AWG	CU #10 AWG	CU #8 AWG	50	PASS	38	2	55	0.91	1	50.05	PASS	5
																		CUMULATIVE

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	DC FEEDER CALCULATIONS																	
	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 CONDUCT ORS 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)	
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	T
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 BOX	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	30	

String 1 Volta String 2 Volta

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.
- 4. WORKING CLEARANCES AROUND ALL NEW AND EXISTING ELECTRICAL EQUIPMENT SHALL COMPLY WITH NEC 110.26.
- 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.
- 7. ALL WIRE TERMINATIONS SHALL BE APPROPRIATELY LABELED AND READILY VISIBLE.
- 8. MODULE GROUNDING CLIPS TO BE INSTALLED BETWEEN MODULE FRAME AND MODULE SUPPORT RAIL, PER THE GROUNDING CLIP MANUFACTURER'S INSTRUCTION.
- 9. MODULE SUPPORT RAIL TO BE BONDED TO CONTINUOUS COPPER G.E.C. VIA WEEB LUG OR ILSCO GBL-4DBT LAY-IN 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.

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I	RESISTAI	NCE	VOLTAGE DROP AT FLA (%)	CONDUIT SIZE	CONDUIT FILL (%)					
_	0.778		0.081	3/4" EMT	24.5591					
	0.778		0.081	3/4" EMT	24.5591					
VE \	OLTAGE D	OROP	0.162]						
RES	DUCTOR STANCE M/KFT)		DLTAGE IP AT FLA (%)	CONDUIT SIZE	CONDUIT FILL (%)					
	1.24		0.049	N/A	#N/A					
	1.24 1.24		0.049 0.294	N/A 3/4" EMT	#N/A 19.79362					
	Drop		0.343	-,						
							BRITTANY NICOLE GOMEZ RESIDENCE		355 EILEEN DR, SPRING LAKE, NC 28390	
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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

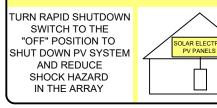
LABEL-4: <u>LABEL LOCATION:</u> MAIN SERVICE PANEL CODE REF: NEC 705.12(C) & NEC 690.59



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



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)



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

MAXIMUM VOLTAGE	480 V
MAXIMUM CIRCUIT CURRENT	16.50 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

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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 SOLAF

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

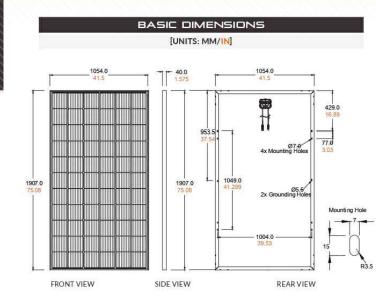
- 9 Busbar
- Passivated Emitter Rear Contact
- Ideal for all applications

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

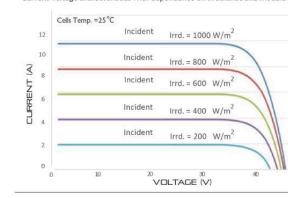






CURRENT-VOLTAGE CURVE MSE3855X9R: 385WP, 66 CELL SOLAR MODULE

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

		MSI	e pe	ERC	66		TOP TIER SO 1530 CENTER CHARLOT UNITE	SOLUT LAR S R PARK	IONS OLUTIO DR #2911 28217,	NS
ELECTR		EDECU				l i	RE	VISIONS	3	
PRODUCT TYPE	1	xxSX9R (xx					DESCRIPTION		, DATE	REV
Power Output		Wp 390		95	400		INITIAL DESIGN		09/21/2023	
Module Efficiency		% 19.4	4 1	9.7	19.9					
Tolerance		% 0/+	3 0,	/+3	0/+3					
Short Circuit Current	lsc	A 11.1	9 11	1.24	11.31					
Open Circuit Voltage	Voc	V 45.0	4 45	5.18	45.33					
Rated Current	Imp	A 10.6	3 10).68	10.79					
Rated Voltage	Vmp	V 36.6	8 36	5.99	37.07					
Fuse Rating		A 20		20	20					
System Voltage		V 1,00	0 1,0	000	1,000					
TEMPER										
Normal Operating Ce		ale contra de ser de		.75°C (±:	2					
	- *-	cient of Pma		367%/°						
44.0		ficient of Vo		259%/°(
		efficient of Is)33%/°C						
	2000 C	1,000Vdc	2010/03/0411-0022	15						
Maximum System V operating Temperature		-40°F to 1		9C to 18	5°C)					
Maximum Series Fuse		20A	.051 (-40	0.10.40	5 C)					
Fire Safety Classifi	Conservation and	Type 1*								
Front & Bac	k Load	Up to 5,40					PROJECT N	AME & A	DDRESS	
(UL Sta Hail Safety Impact V	and a second second	back load, 25mm at 2		UL 6173	30					
Assion Solar Energy uses qu te, the 'Fire Class' Rating is not limited to, the module, t	iality sourcei designated (d materials that for the fully-inst	result in a Ty alled PV syst	em, which	includes, but		L L L L L		3390	
0 X	51 A						ЗШ	Û	Š Š	
Solar Cells		nono-crystal		1			≅□		20	
Cell Orientation	66 cells		inte sincor	с.			Z IS			
Module Dimension		m x 1,054mn	n x 40mm				≻щ	ü	<u>i</u> Ü	
Weight	48.5 lbs	. (22 kg)					ΓΑΝΥ Ν Z RESII	ш Ш	LAKE,	
Front Glass	3.2mm t	empered, lo	w-iron, an	ti-reflect	ive		EZ TA			
Frame	40mm A	nodized						355 255	žŽ	
Encapsulant	Ethylene	e vinyl acetat	e (EVA)				N N N	(·	, <u>R</u>	
Junction Box	Protecti	on class IP67	⁷ with 3 by	/pass-dio	odes		BRI		SPRING	
Cable		/ire 4mm2 (1					-0		0)	
Connector		PV-KBT4/6II enhe 05-8	-UR and P	V-KST4/	/6II-UR,					
SHIPF	NNG I	NFORM		N			DR	AWN BY		
ontainer Feet Shij	р То	Pallet	Panels	390	W Bin			ESR		
	States	30	780		.20 kW	١Ļ				
ouble Stack C	A	26	676	263.	.64 kW					
	PALLET	[26 PANEL	S]					IPME		
	Height 17.56 in		idth 6 in		ength 77 in	IL.	SPECI	FICAT	IION	
	20.80 cm)		84 cm)		.58 cm)	ΙΓ	SHE	ET SIZE	Ē	
							ΔΝ	NSI B	s	
									, 	

					Т	SOLAR S	OLUTIONS	
	M	ISE PE	ERC	66		CHARLOTT	PARK DR #2911 E, NC 28217,) STATES	,
ELECTR	ICAL SPE		ION			REVI	SIONS	
PRODUCT TYPE	MSExxxSX9	R (<mark>xxx</mark> = P _{max})				DESCRIPTION	DATE	ĺ
Power Output	Pmax Wp	390 3	95	400		INITIAL DESIGN	09/21/2023	Ī
Module Efficiency	%	19.4 19	9.7	19.9				l
Tolerance	%	0/+3 0/	/+3	0/+3				
Short Circuit Current	Isc A	11.19 11	L.24	11.31				-
Open Circuit Voltage	Voc V	45.04 45	5.18	45.33				
Rated Current	Imp A	10.63 10).68	10.79				
Rated Voltage	V _{mp} V	36.68 36	5.99	37.07				
Fuse Rating	А	20 2	20	20				
System Voltage	V	1,000 1,0	000	1,000				
TEMPER		oeeeicie	NITE					
Normal Operating Cel		n de de la company de la company	.75°C (±3.	7%)				
	re Coefficient o		367%/°C	, , , , ,				
	ure Coefficient		259%/°C					
210	ature Coefficien		033%/°C					
			15					
Maximum System Vo		0Vdc		1				
Operating Temperature I		F to 185°F (-40°	°C to +85	·C)				
Maximum Series Fuse I								
Fire Safety Classifi Front & Back	N 18 1851		t and 2 40	0.0-		PROJECT NAM	ME & ADDRESS	
(UL Star		o 5,400 Pa front load, Tested to						
Hail Safety Impact Ve	locity 25m	m at 23 m/s				Ш	0	
Mission Solar Energy uses que note, the 'Fire Class' Rating is o s not limited to, the module, th	lesignated for the fu	lly-installed PV syste	em, which in	cludes, but		OLE	EEN DR, E, NC 28390	
ME		L DATA				υЩ	ЦС	
Solar Cells	P-type mono-c	rystalline silicon	1			₹	zž	
Cell Orientation	66 cells (6x11)					- S	ய்	
Module Dimension	1,907mm x 1,0	54mm x 40mm				3RITTANY OMEZ RE	Ϋ́Ε	
Weight	48.5 lbs. (22 kg						EILE	
Front Glass	and the second	ed, low-iron, ant	ti-reflectiv	e		́НЫ́	355 SPRING	
Frame	40mm Anodize					$\vdash \exists$	<u>N</u> 32	
Encapsulant	Ethylene vinyl a					BRI	Ř	
Junction Box		s IP67 with 3 by	/pass-diod	es		вX	SF	
Cable	1.2m, Wire 4m		VETAV			0	0,	
Connector	MC4, Renhe 05	4/611-UR and P 5-8	v=r\314/0	ii-OK,				
SHIPP	ING INFO	RMATIO	N					-
Container Feet Ship	witch both and a	A	390V	√ Bin				
53' Most S	itates 30	780	304.2	0 kW		E	SR	
Double Stack C/	A 26	676	263.6	4 kW			T NAME	-
	PALLET [26 P/	ANELS]				EQUIF	PMENT	
	leight	Width		gth		SPECIF	ICATION	
	7.56 in 0.80 cm)	46 in (116.84 cm)		in 58 cm)			T SIZE	-
120								
						AN	SIB	

	Μ	ISE PE	ERC	66	1530 CENTER CHARLOT	2 PARK DR #2911, TE, NC 28217,
ELECTR	RICAL SPI	ECIFICAT	ION		REV	ISIONS
PRODUCT TYPE					DESCRIPTION	DATE
Power Output			95	400	INITIAL DESIGN	09/21/2023
Module Efficiency	%	19.4 1	9.7	19.9		
Tolerance	%	0/+3 0/	/+3	0/+3		
Short Circuit Current	Isc A	11.19 11	1.24	11.31		
Open Circuit Voltage	Voc V	45.04 45	5.18	45.33		
Rated Current		10.63 10).68	10.79		
	- (19)			37.07		
10 million (10 million)	A state	2242	1997 - 19			
		Contraction and Contraction				
oyatem vortage	v .	2,000 1,0		210.00		
TEMPER	ATURE C	OEFFICIE	NTS			
Normal Operating Ce	II Temperature (NOCT) 43.	.75°C (±3	.7%)		
Temperati	ure Coefficient o	f Pmax -0.	367%/°C			
Tempera	ture Coefficient	of Voc -0.2	259%/°C			
Temper	ature Coefficien	it of Isc 0.0)33%/°C			
OPER		אסודוסא	15			
NO-DOCTITIE Prover Output Normalization Power Output % 194 197 199 Toterance % 0.43 0.43 0.43 0.43 ort Circuit Current Ise A 11.24 11.31 Rated Current Ise A 10.63 10.68 10.79 Rated Voltage V. V 36.68 36.99 37.077 Fixee Rating V 1.000 1.000 1.000 Temperature Coefficient of Pmax -0.367%/°C -0.367%/°C -0.367%/°C Temperature Coefficient of Voc -0.259%/°C -0.338%/°C -0.338%/°C Temperature Coefficient of Ise -0.367%/°C -0.338%/°C -0.338%/°C Temperature Coefficient of Ise -0.338%/°C -0.338%/°C -0.338%/°C Fire Cosk Rindstandon 1.900Vid -30000000000000000000000000000000						
	17 I.		°C to +85	°C)		
VAN 10 00 00 0000 0						
		1*				
and the second	10 10 10 10 10 10 10 10 10 10 10 10 10 1		t and 3,60	10 Pa	PROJECT NA	ME & ADDRESS
	GIA III				υЩ	0
ote, the 'Fire Class' Rating is	designated for the fu	lly-installed PV syste	em, which is	ncludes, but		۲, 2835
ME		L DATA			ŬЩ	БÖ
Solar Cells	P-type mono-c	rystalline silicon	1		≓ ¦	zŽ
	66 cells (6x11)				<u> </u>	ய்
Module Dimension	1,907mm x 1,0	54mm x 40mm			Ϋ́Ε	<u> </u>
Weight	48.5 lbs. (22 kg	j)			∠⊥	
Front Glass	3.2mm temper	ed, low-iron, ant	ti-reflecti	/e	1 N	<u>ل</u> م ري
Frame	40mm Anodize	d			ΤΨ	35 N(
Encapsulant	Ethylene vinyl	acetate (EVA)			2 3	<u> </u>
Junction Box	Protection clas	s IP67 with 3 by	pass-dio	les	ых	Ū.
Cable	1.2m, Wire 4m	m2 (12AWG)			- U	0)
Connector			V-KST4/	5II-UR,		
SHIPF	NG INFO	DRMATIO	N		עםע	
ontainer Feet Shi	p To Pallet	Panels	390\	V Bin		
53' Most	States 30	780	304.2	20 kW	E	5K
Double Stack C	CA 26	676	263.0	64 kW	SHEE	TNAME
	PALLET [26 P	ANELS]			EQUI	PMENT
Weight	Height	Width	Le	ngth	SPECIE	
1,300 lbs. 4	17.56 in	46 in	7	7 in		
(J/Z Ng) (I.	20.00 cm)	(110.04 (11)	(175,			
					Δ Ν	

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11" X 17" SHEET NUMBER REV

PV-9

Power Optimizer

For Residential Installations

S440 / S500 / S500B / S650B



POWER OPTIMIZER

Enabling PV power optimization at the module level

- I 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
- Compatible with bifacial PV modules

/ Power Optimizer For Residential Installations S440 / S500 / S500B / S650B

	S440	S500	S500B	S650B	UNI	
INPUT						
Rated Input DC Power®	440	5	00	650	W	
Absolute Maximum Input Voltage (Voc)	60)	125	85	Vdc	
MPPT Operating Range	8 -	60	12.5 - 105	12.5 - 85	Vdo	
Maximum Short Circuit Current (Isc) of Connected PV Module	14.5 15		Ado			
Maximum Efficiency	99.5					
Weighted Efficiency		98	3.6		%	
Overvoltage Category			1			
OUTPUT DURING OPERTION						
Maximum Output Current		1	5		Add	
Maximum Output Voltage	60)	8	30	Vde	
OUTPUT DURING STANDBY (POWER OPTIMIZER	DISCONNECTED	FROM INVERTER	OR INVERTER OF	F)		
Safety Output Voltage per Power Optimizer		1±	0.1		Vde	
STANDARD COMPLIANCE ⁽²⁾						
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 Resistant					
RoHS	Yes					
Fire Safety	VDE-AR-E 2100-712:2018-12					
INSTALLATION SPECIFICATIONS					- 0. 	
Maximum Allowed System Voltage		10	00		Vdd	
Dimensions (W x L x H)	129 x 15	5 x 30	129 x 165 x 45		mm	
Weight	72	0	790		gr	
Input Connector		MC	4(3)			
Input Wire Length		0	.1		m	
Output Connector		M	C4			
Output Wire Length		(+) 2.3,	(-) 0.10		m	
Operating Temperature Range ⁽⁴⁾		-40 tr	o +85		*C	
Protection Rating		IP	68			
Relative Humidity		0 -	100		%	

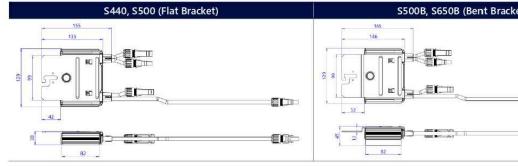
(4) Power (le-rating is applied for ambient ter	peratures above +85°C for	5440 and 5500,	and for ambient temperatures ab	ove +75°C for S500B. Refer to the
Power (Optimizers Temperature De-Rating	Technical Note for details.			

PV System Design Using a Solar Edge Inverter ⁽⁵⁾		SolarEdge Home Wave Inverter Single Phase	SolarEdge Home Short String Inverter Three Phase	Three Phase for 230/400V Grid	Three Phase for 277/480V Grid	
Minimum String Length	\$440, \$500	8	9	16	18	
(Power Optimizers)	S500B, S650B	6	8	1	4	
Maximum String Length (Po	ower Optimizers)	25	20	5	0	
Maximum Continuous Powe	er per String	5700	5625	11250	12750	W
	ed Power per String naximum is permitted only when the petween strings is 2,000W or less)	See ^{i®}	See ^{isi}	13500	15000	W
Parallel Strings of Different			Yes			

(5) It is not allowed to mix S-series and P-series Power Optimizers in new installations in the same string.

(6) If the inverter's 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





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 EDE
 ({ RoHS

T	OP	TI	Ε	R
10 - 14 10	SOLAR	SOLUTI	ONS	

TOP TIER SOLAR SOLUTIONS

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

REVISION	IS	
DESCRIPTION	DATE	REV
INITIAL DESIGN	09/21/2023	
PROJECT NAME &	ADDRESS	
BRITTANY NICOLE GOMEZ RESIDENCE	355 EILEEN DR, SPRING LAKE, NC 28390	
DRAWN B	Y	
ESR		
SHEET NAI EQUIPMI SPECIFICA	ENT	

SHEET SIZE

ANSI B

11" X 17"

SHEET NUMBER PV-10

Single Phase Energy Hub Inverter with Prism Technology

For North America

SE3000H-US / SE3800H-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
- / Small, lightweight, and easy to install
- / Modular design, future ready with optional upgrades to:
- / DC-coupled storage for full or partial home backup
- Built-in consumption monitoring
- Direct connection to the SolarEdge smart EV charger

- Multi-inverter, scalable storage solution / With enhanced battery power up to 10kW
- Integrated arc fault protection and rapid shutdown for NEC 2014, NEC 2017 and NEC 2020, per article 690.11 and 690.12
- I Embedded revenue grade production data, ANSI C12.20 Class 0.5

/ Single Phase Energy Hub Inverter with Prism Technology

For North America

SE3000H-US / SE3800H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US⁽¹⁾

	SE3000H-US	SE3800H-US	SE6000H-US	SE7600
OUTPUT - AC ON GRID				
Rated AC Power	3000	3800 @ 240V 3 300 @ 208V	6000 @ 240V 5000 @ 208V	760
Maximum AC Power Output	3000	3800 @ 240V 3300 @ 208V	6000@240V 5000@208V	760
AC Frequency Range (mín - nom - max)			59.3 - 60	- 60.5121
Maximum Continuous Output Current @ 240V	12.5	16	25	32
Maximum Continuous Output Current @208V		16	24	
GFDI Threshold			1	
Total Harmonic Distortion (THD)			<	3
Power Factor			1, adjustable	-0.85 to 0.8
Utility Monitoring,IslandingProtection;Country ConfigurableThresholds			Ye	35
Charge Battery from AC (if allowed)			Ye	es
Typical Nighttime Power Consumption			<2	.5
OUTPUT - AC BACKUP ⁽³⁾				
		3800		760
Rated AC Power in Backup Operation®	3000	7600*	6000	1030
AC L-L Output Voltage Range in Backup		A	211 -	264
AC L-N Output Voltage Range in Backup			105 -	132
AC Frequency Range in Backup (min - nom - max)			55 - 60	0 - 65
MaximumContinuous Output Current in Backup Operation	12.5	16 32*	25	32 43
GFDI				
THD			<	5
OUTPUT - SMART EV CHARGER AC	1,:			
Rated AC Power	Ê.		96	00
AC Output Voltage Range			211 -	25.0215
On-Grid AC Frequency Range (min - nom - max)			59.3 - 60	30.45333
Maximum Continuous Output Current @240V (grid, PV and battery)			4	810 - 980893 800-
INPUT - DC (PV AND BATTERY)			1	
	Ť		Ye	
Transformer-less, Ungröunded				
MaxInput Voltage			48	
Nom DC Input Voltage			38	
Reverse-Polarity Protection			Ye	
Ground-Fault Isolation Detection			600kΩ S	ensitivity
INPUT - DC (PV)		1 2222	1	100
Maximum DC Power @ 240V	6000	7600 15200*	12000	152 2280
Maximum DC Power @ 208V	121	6600	10000	-
Maximum Input Current ⁽⁹ @ 240V	8.5	10.5 20*	16.5	20
Maximum Input Current ⁽⁵⁾ @ 208V	1.1.1	9	13.5	-
		1	4	5
Max. Input Short Circuit Current				- 99.
	99			
Max. Input Short Circuit Current Maximum Inverter Efficiency CEC Weighted Efficiency	99		99	

* Supported with PN SExxxxH-USMMxxxxxx or SExxxXH-USMMxxxxxx or SExxxXH-USSMxxxxxx and connection unit model number DCD-1PH-US-PXH-F-(1) These specifications apply to inverters with part numbers SExxxXH-USSMxxxxx or SExxxXH-USSNxxxxxx and connection unit model number DCD-1PH-US-PXH-F-

The spectra and a dopy to inverters with pair infinite's sectors of sector-ossivitions of sector-ossivitions and connection unit model number bitch-infinite's sectors.
 For other regional settings please contact SolarEdge support
 Not designed for standalone applications and requires AC for commissioning. Backup functionality is only supported for 240V grid
 Rated AC power in Backup Operation are valid for installations with multiple inverters. For a single backup inverter operation, rated AC power in Backup is 90% of (5) A higher current source may be used; the inverter will limit its input current to the values stated



HOME BACKUP

solaredge.com

	TOP T	IER	
	TOP TIER SOLAR	SOLUTIO	
	CHARLOTTE, N UNITED STA	C 28217, ATES	,
╟	REVISION	S DATE	REV
	INITIAL DESIGN	09/21/2023	
	PROJECT NAME &	ADDRESS	
	BRITTANY NICOLE GOMEZ RESIDENCE	355 EILEEN DR, SPRING LAKE, NC 28390	
	drawn b ESR		
	SHEET NAI EQUIPME SPECIFICA	ENT TION	
	SHEET SIZ ANSI 11" X 1	В	
	SHEET NUM	BER	

PV-11

H-US	SE10000H-US	SE11400H-US	UNITS
	10000	11400 @ 240V 10000 @ 208V	W
6	10000	11400 @ 240V 10000 @ 208V	W
			Hz
	42	47.5	A
	2	48.5	A
			A
5			%
			W
0	10000	10300	W
)*	10000	10000	
			Vac
			Vac
_			Hz
	42	43	A
			A
			%
			W
			Vac
			Hz
			Aac
			Vdc
			Vdc
0	22000	22000	
)*	22000	22800	W
	-	20000	W
\$	27	31	Adc
÷	2	27	Adc
			Adc
}			%
		99 @ 240V 98.5 @ 208V	%
1			

/ Single Phase Energy Hub Inverter with Prism Technology

For North America

SE3000H-US / SE3800H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US⁽¹⁾

	SE3000H-US	SE3800H-US	SE6000H-US	SE7600H-US	SE10000H-US SE11400H-US	UNITS
INPUT - DC (BATTERY)						
Supported Battery Types		Sol	arEdge Energy Bar	k, LG RESU Prime ⁽⁶⁾		
Number of Batteries per Inverter		Up to 3 Sc	larEdge Energy Ba	nk, up to 2 LG RESU	J Prime	
Continuous Power ^m	6000	6000 7600 10000				W
Peak Power ^m	6000	7600		100	000	W
Max Input Current	16	20		26	5.5	Adc
2-pole Disconnection			Y	es		
SMART ENERGY CAPABILITIES						
Consumption Metering			Built	- in ^{na}		
Backup & Battery Storage	With Ba	ckup Interface (pur	chased separately)	for service up to 20	00A; Up to 3 inverters	
EV Charging			Direct connection t	to Smart EV charger	рания и противника и Во противника и проти	
ADDITIONAL FEATURES						
Supported Communication Interfaces	RS485, Ethernet, Cellular®, Wi-Fi (optional), SolarEdge Energy Net (optional)					
Revenue Grade Metering, ANSI C12.20	Built - in ^{er}					
Integrated AC, DC and Communication Connection Unit	Yes					
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi Access Point for local connection					
DC Voltage Rapid Shutdown (PV and Battery)	Yes, according to NEC 2014, NEC 2017 and NEC 2020 690.12					
STANDARD COMPLIANCE						
Safety		UL1741, UL1741 SA	, UL1741 PCS, UL16	599B, UL1998, UL954	40, CSA 22.2	
Grid Connection Standards			IEEE1547, Ru	e 21, Rule 14H		
Emissions			FCC part	15 class B		
INSTALLATION SPECIFICATIONS	C).					
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		
	-		6 - M2	17.7 x 14.6 x 6.8 / 450 x 370 x 174		• (#1.5816)
Dimensions with Connection Unit $(H \times W \times D)$	17.7 x 1	4.6 x 6.8 / 450 x 37	0 x 174	17.7 x 14.6 x 6.8 / 450 x 370 x 174*	17.7 x 14.6 x 6.8 / 450 x 370 x 174	in/mn
Weight with Connection Unit		26/11.8		26 / 11.8 41.7/ 18.9*	41.7 / 18.9	lb/kg
Noise	< 25	< 25 < 50*	< 25		< 50	dBA
Cooling			Natural C	i Convection		
Operating Temperature Range			(C) AND ADDRESS OF A	/ -40 to +60 ^{p0}		°F/°C
Protection Rating			7.000.0000	MA 4		

(6) The part numbers SExxxxH-USxMXxxxxx only support the SolarEdge Energy Bank. The part numbers SExxxxH-USxNxxxxx support both SolarEdge Energy Bank and LG RESU Prime batteries

(9) Information concerning the Data Plan's terms & conditions is available in the following link: https://www.solaredge.com/sites/default/files/se-communication-plan-terms-and-conditions-eng.pdf
 (10) Full power up to at least 50°C / 122°F; for power de-rating information refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf

TOP TIER			
TOP TIER SOLAR		_	
1530 CENTER PAR CHARLOTTE, N UNITED ST	IC 28217,	,	
REVISION	NS		
DESCRIPTION	DATE	REV	
INITIAL DESIGN	09/21/2023		
	ADDRESS		
BRITTANY NICOLE GOMEZ RESIDENCE	355 EILEEN DR, SPRING LAKE, NC 2839		
DRAWN BY ESR			
SHEET NAME EQUIPMENT SPECIFICATION			
SHEET SIZE ANSI B 11" X 17"			
SHEET NUMBER PV-12			



Tech Brief

XR Rail Family

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.



Rail Selection

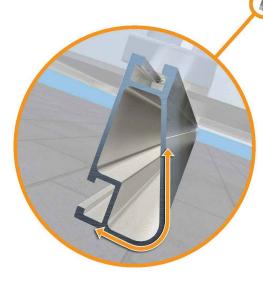
The following table was prepared in compliance with applicable engineering codes and standards. Values are based on the following criteria: ASCE 7-10, Roof Zone 1, Exposure B, Roof Slope of 7 to 27 degrees and Mean Building Height of 30 ft. Visit IronRidge.com for detailed span tables and certifications.

Lo	ad			Rail	Span
Snow (PSF)	Wind (MPH)	4'	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				

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.



ef

	10'	12'	
	XR1000	-	
			_
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-			
n 1.1	1		

TOP TIER SOLAR SOLUTIONS

TOP TIER SOLAR SOLUTIONS

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

REVISIONS			
DESCRIPTION	DATE	REV	
INITIAL DESIGN	09/21/2023		

PROJECT NAME & ADDRESS

BRITTANY NICOLE

GOMEZ

355 EILEEN DR, SPRING LAKE, NC 28390

DRAWN BY

ESR

SHEET NAME EQUIPMENT

SPECIFICATION SHEET SIZE

> ANSI B 11" X 17"

SHEET NUMBER

PV-13





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

and bonds the L-foot to the

same socket as the rest of the

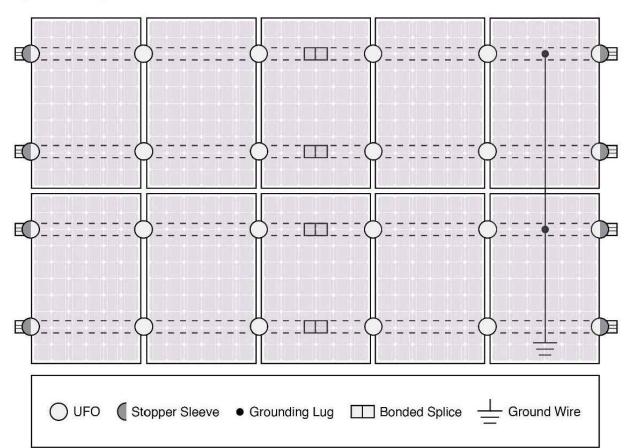
rail. It is installed with the

system

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. 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

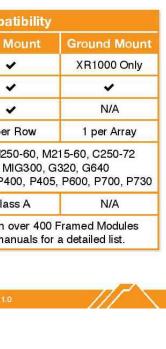
The IronRidge Flush Mount, Tilt Mount, and Ground Mount Systems have been listed to UL 2703 by Intertek Group plc.

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.

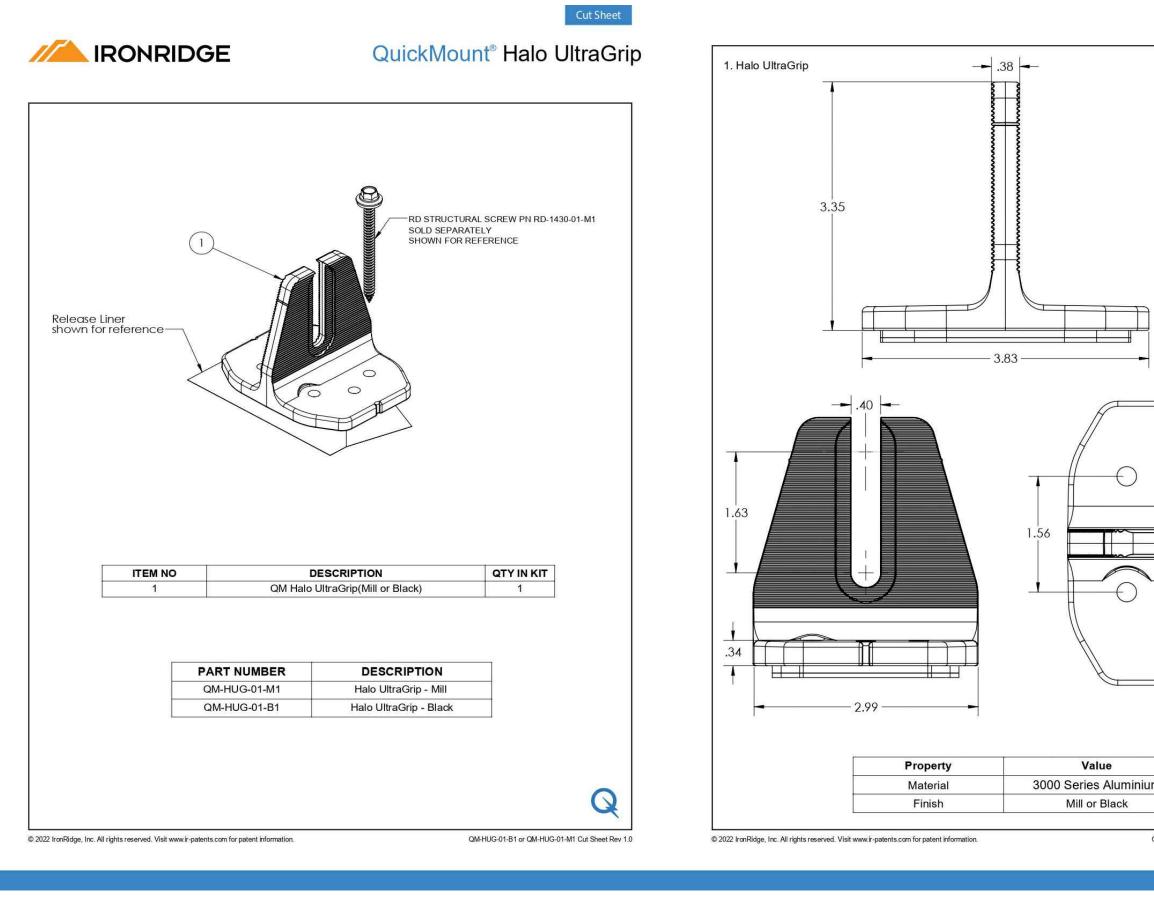
Go to IronRidge.com/UFO

Cross-System Com		
Feature	Flush Mount	Tilt N
XR Rails	~	
UFO/Stopper	~	,
Bonded Splice	~	
Grounding Lugs	1 per Row	1 per
Microinverters & Power Optimizers	Enphase - M250-72, M25 Darfon - MIG240, M SolarEdge - P300, P320, P4	
Fire Rating	Class A	Cla
Modules	Tested or Evaluated with Refer to installation ma	



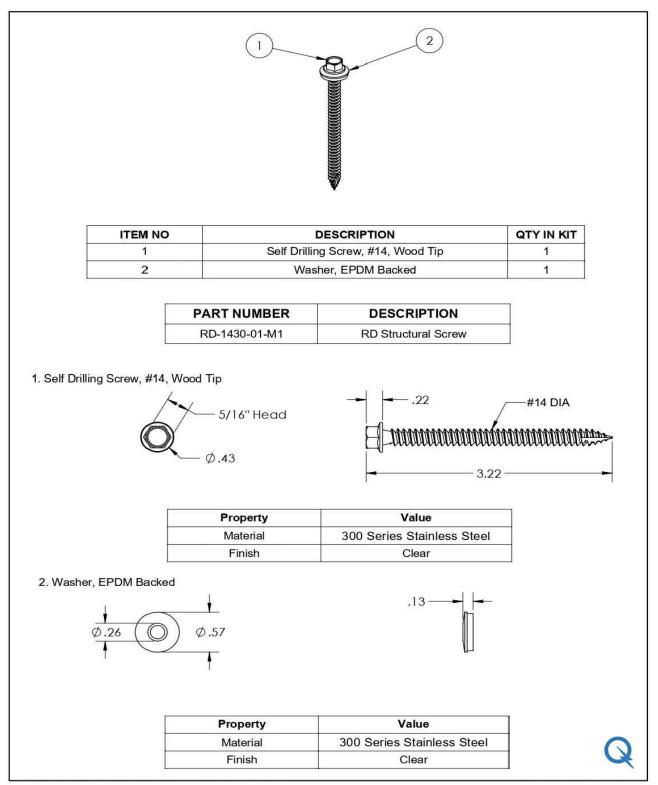


TOP TIER SOLAR SOLUTION TOP TIER SOLAR SOLUTIONS 1530 CENTER PARK DR #2911, CHARLOTTE, NC 28217, UNITED STATES REVISIONS DESCRIPTION DATE REV INITIAL DESIGN 09/21/2023 **PROJECT NAME & ADDRESS** BRITTANY NICOLE GOMEZ RESIDENCE 355 EILEEN DR, SPRING LAKE, NC 28390 DRAWN BY ESR SHEET NAME EQUIPMENT SPECIFICATION SHEET SIZE ANSI B 11" X 17" SHEET NUMBER PV-14



Cut Sheet	TOP T SOLAR SOLU	
	TOP TIER SOLAR SOLUTIONS 1530 CENTER PARK DR #2911, CHARLOTTE, NC 28217, UNITED STATES	
	REVISION	IS
	DESCRIPTION	DATE REV
	INITIAL DESIGN	09/21/2023
	BRITTANY NIC GOMEZ RESID	355 EILEEN DR, SPRING LAKE, NC 28390
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n	ESR SHEET NAI	MF
DM-HUG-01-B1 or QM-HUG-01-M1 Cut Sheet Rev 1.0	EQUIPME SPECIFICA	ENT TION
	SHEET SIZ	
	ANSI 11" X 1	
	SHEET NUM	
	PV-1	5

IRONRIDGE QuickMount[®] RD Structural Screw



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

TOP TIER SOLAR SOLUTIONS			
TOP TIER SOLAR 1530 CENTER PAR CHARLOTTE, N UNITED ST	K DR #2911 C 28217,	_	
DESCRIPTION	DATE	REV	
INITIAL DESIGN	09/21/2023		
	355 EILEEN DR, SPRING LAKE, NC 28390		
DRAWN BY ESR			
SHEET NAME EQUIPMENT SPECIFICATION			
SHEET SIZE ANSI B 11" X 17"			
SHEET NUMBER PV-16			

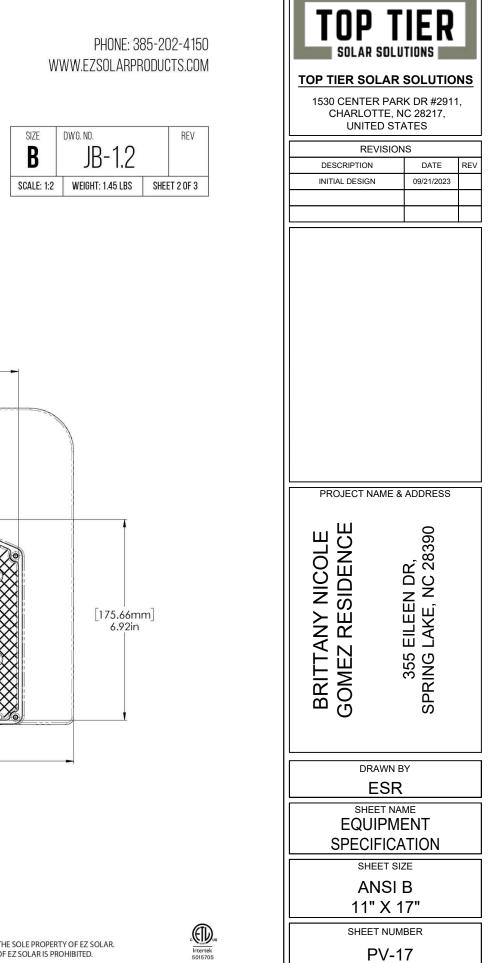


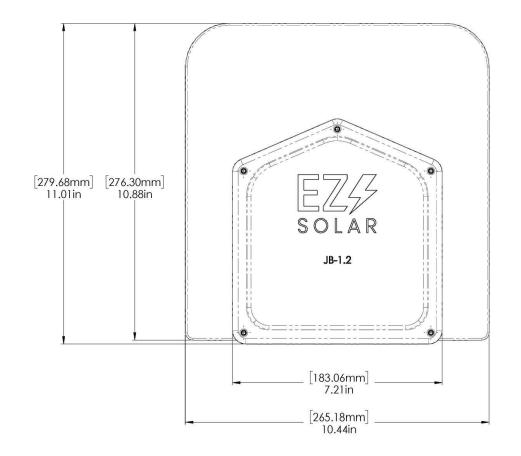
PHONE: 385-202-4150 WWW.EZSOLARPRODUCTS.COM

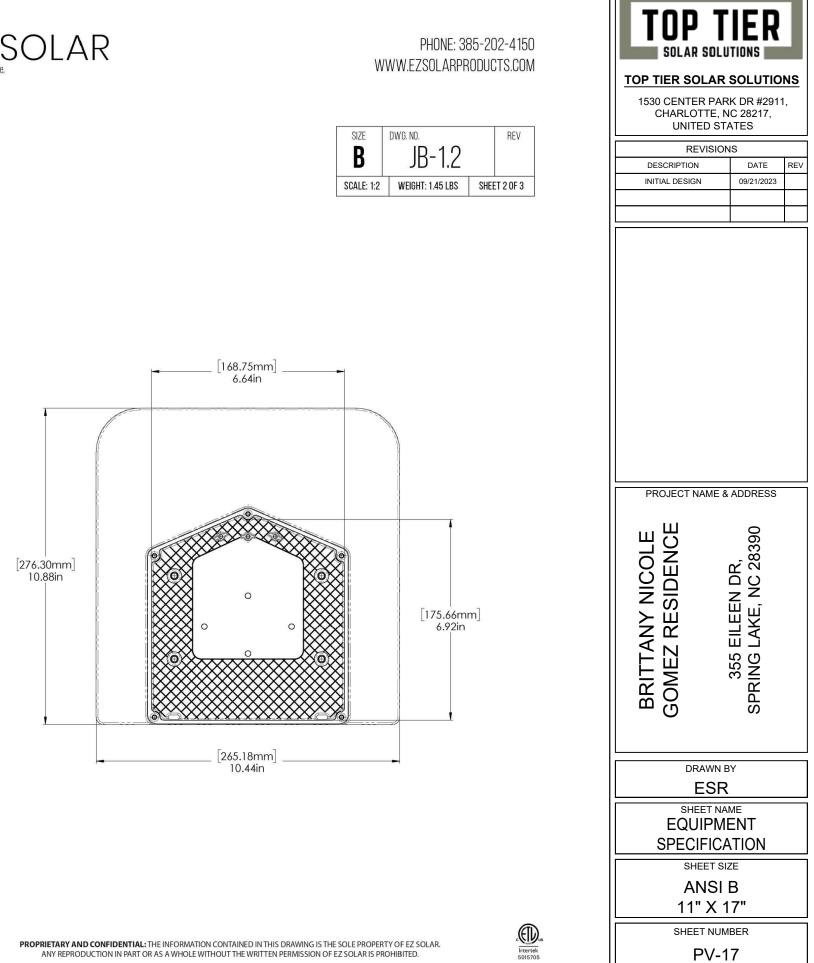


ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	JB-1.2 BODY	POLYCARBONATE WITH UV INHIBITORS	1
2	JB-1.2 LID	POLYCARBONATE WITH UV INHIBITORS	1
3	#10 X 1-1/4" PHILLIPS PAN HEAD SCREW		6
4	#8 X 3/4" PHILLIPS PAN HEAD SCREW		6

size B	dwg. no.	8-1.2		REV
SCALE: 1:2	WEIGHT	: 1.45 LBS	SHEE	T 1 OF 3
TORQUE SPEC	IFICATION:	CATION: 15-20 L		.BS
CERTIFICATION:		UL 1741, NEMA 3R CSA C22.2 NO. 290		
WEIG	HT:	1.45 LBS		S







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