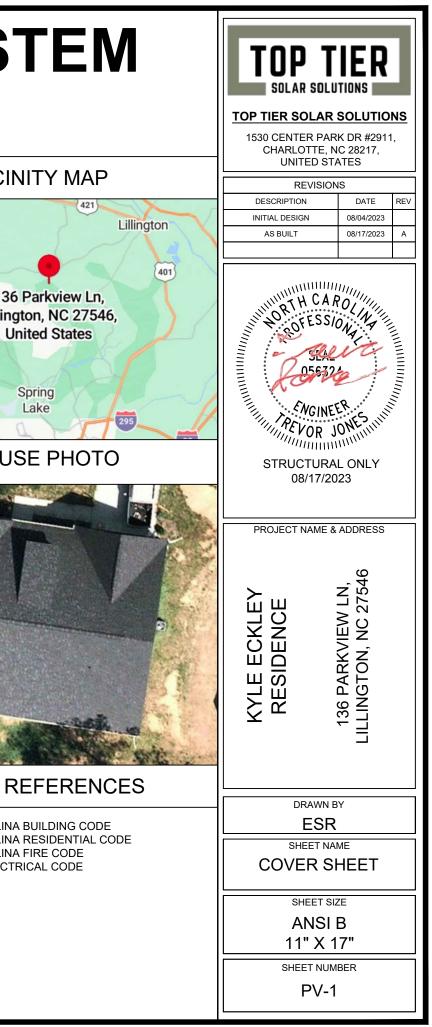
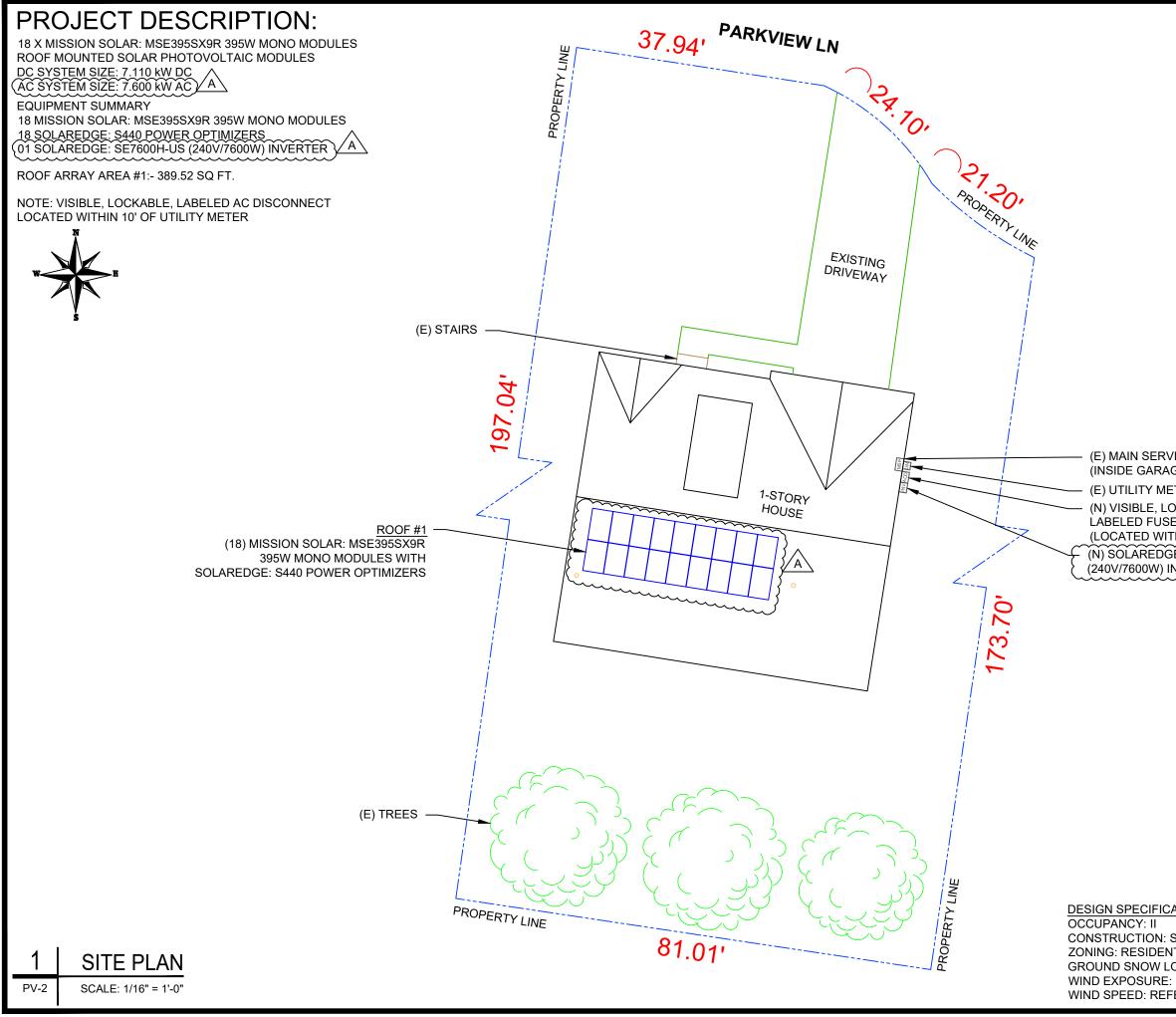
PHOTOVOLTAIC ROOF MOUNTED - 7.110 KW DC, 7.600 KW AC

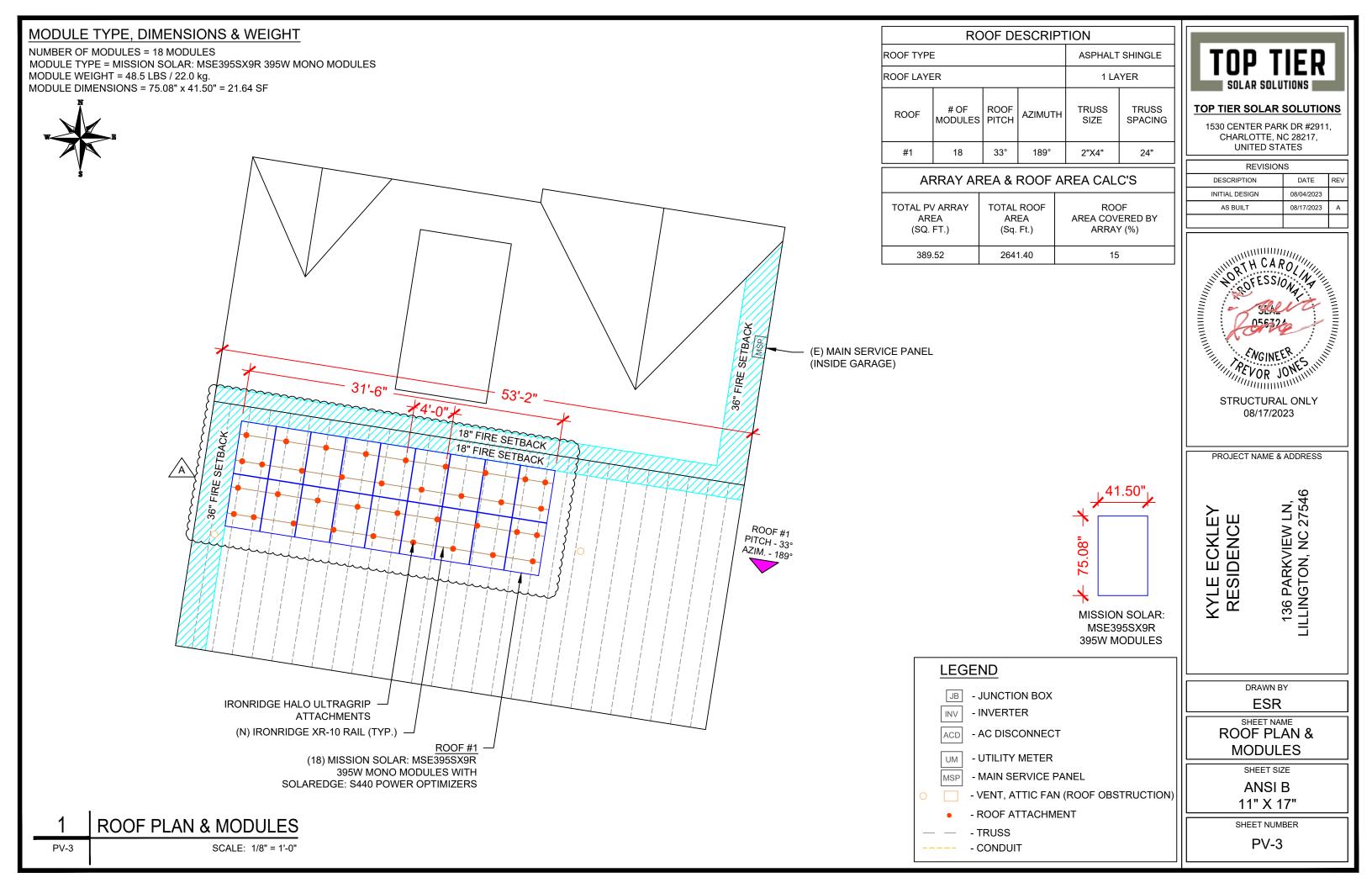
136 PARKVIEW LN, LILLINGTON, NC 27546

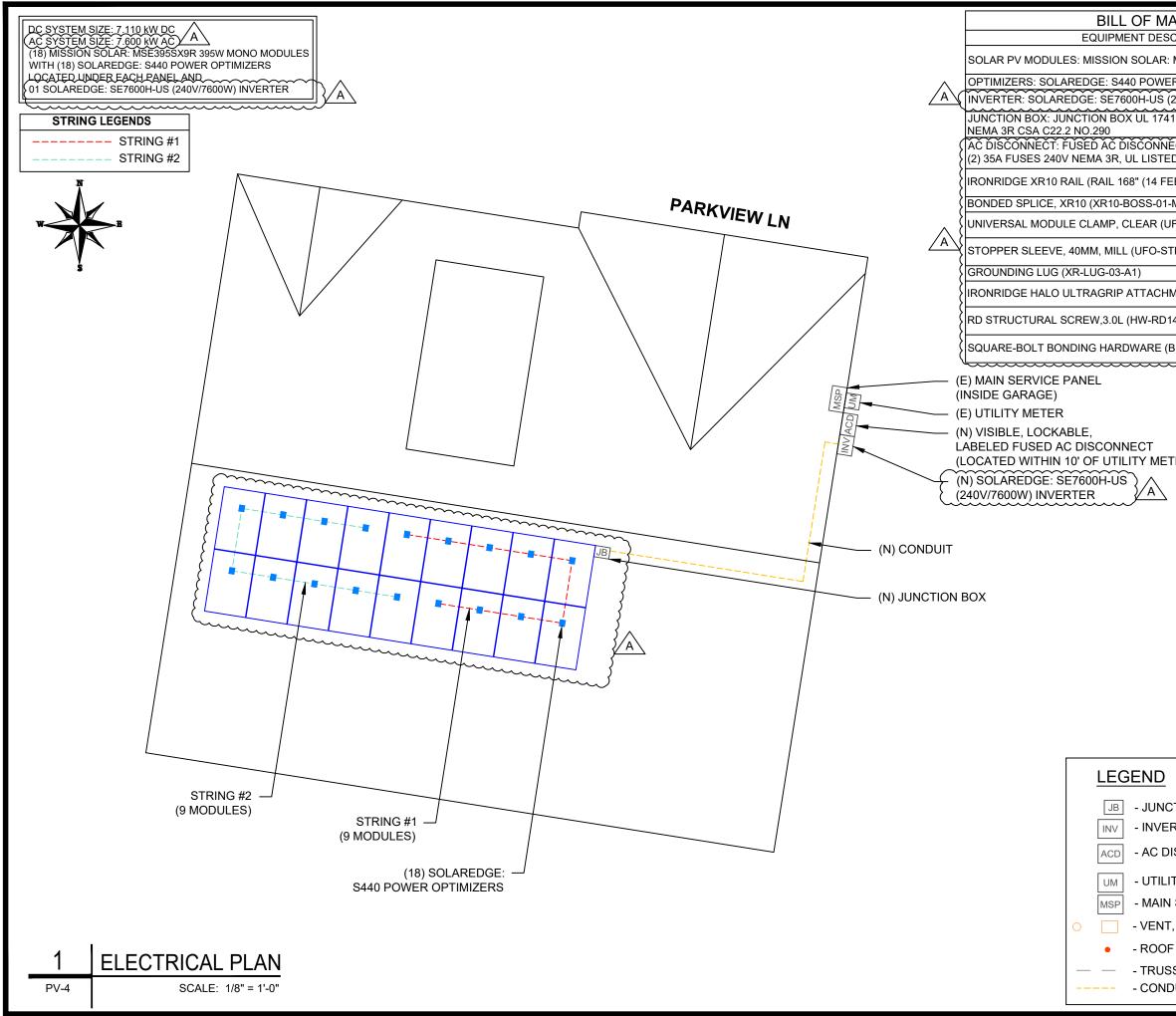
PROJECT DATA	GENERAL NOTES	VICII
PROJECT DATA PROJECT 136 PARKVIEW LN, ADDRESS LILLINGTON, NC 27546 OWNER: KYLE ECKLEY DESIGNER: ESR SCOPE: 7.110 KW DC ROOF MOUNT SOLAR PV SYSTEM WITH 18 MISSION SOLAR: MSE395SX9R 395W PV MODULES WITH 18 SOLAREDGE: S440 POWER OPTIMIZERS AND 01 SOLAREDGE: SE7600H-US (240V/7600W) INVERTER	 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. 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 ROUND ROLAROR CLARP. GROUNDING ELECTRODE WILL BE USED AT THE INVERTER LOCATION CONSISTING OF A UL LISTED AS THAN #6 AWG COPPER AND BONDED TO THE EXISTING 	130 Lilling U
AUTHORITIES HAVING JURISDICTION: BUILDING: HARNETT COUNTY ZONING: HARNETT COUNTY UTILITY: SOUTH RIVER EMC 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 LABELS PV-9+ 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 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 690.41. 	HOU
SIGNATURE	 IV OF OF OLEM ON CONTONNO NO FRALED ON OR IN SOLUTION OF A MALE INCLUDED A YOAR IN DISTONOUT ON ON IN ACCORDANCE WITH NEC 690.12 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. 	CODE F 2018 NORTH CAROLIN 2018 NORTH CAROLIN 2018 NORTH CAROLIN 2017 NATIONAL ELECT



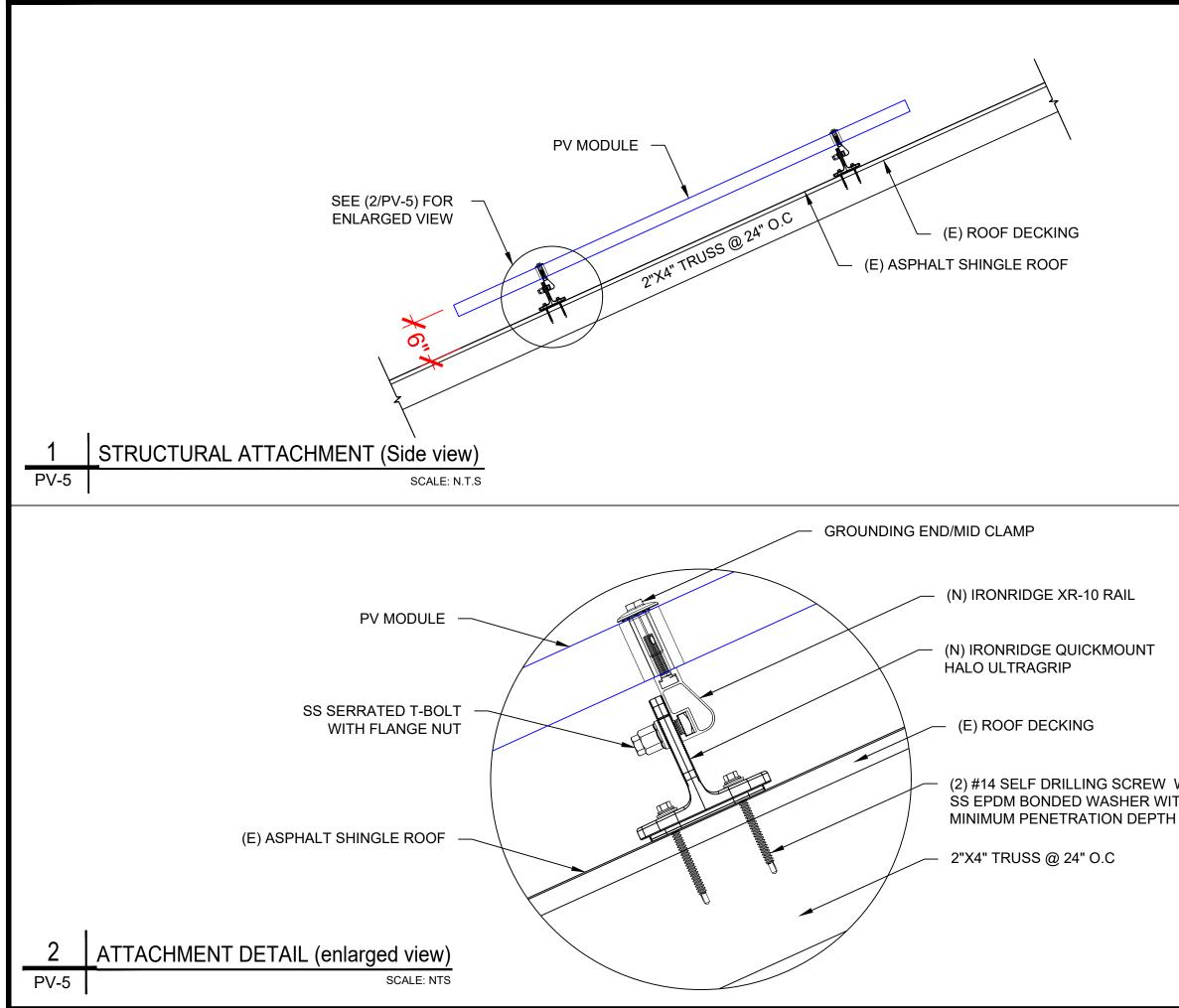


	TOP TIER SOLAR 1530 CENTER CHARLOT UNITE	TIER SOLUTIONS LAR SOLUTIONS R PARK DR #2911, TE, NC 28217, D STATES //ISIONS DATE REV 08/04/2023
	AS BUILT	08/17/2023 A
/ICE PANEL GE) ETER DCKABLE,		CAROLINE SSIONER GINEER DR JONES URAL ONLY 17/2023
ED AC DISCONNECT	PROJECT NA	AME & ADDRESS
THIN 10' OF UTILITY METER) SE: SE7600H-US NVERTER	KYLE ECKLEY RESIDENCE	136 PARKVIEW LN, LILLINGTON, NC 27546
		SR
	SITE	ET NAME E PLAN
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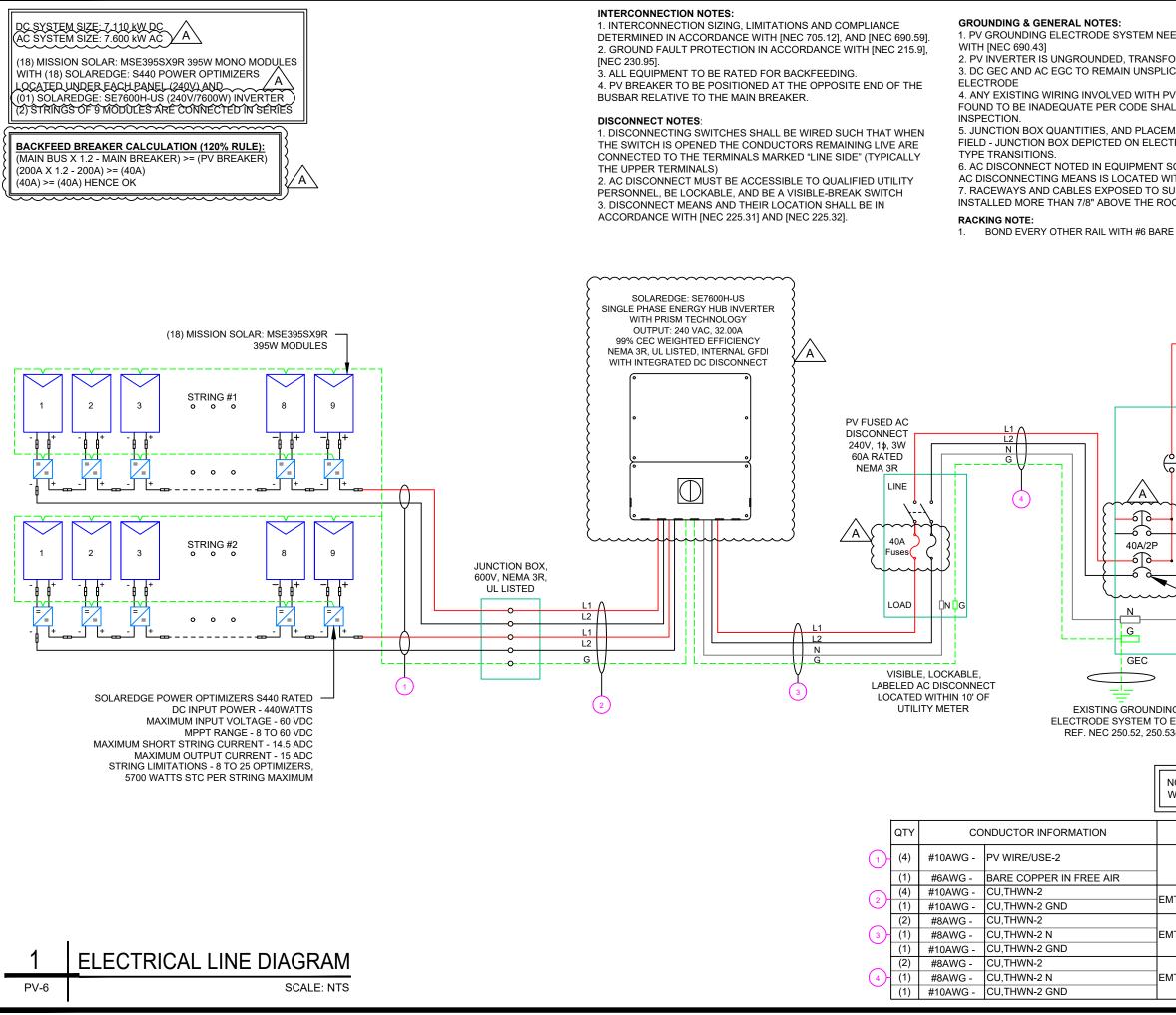




ATERIALS		ſ			
CRIPTION	QTY				
MSE395SX9R 395W MODULE	18		TOP T	IFR	
ER OPTIMIZERS	18		SOLAR SOLU		
(240V/7600W) INVERTER	01	,			
1,			TOP TIER SOLAR		_
ECT, 60A FUSED,	$\left \begin{array}{c} \cdot \\ \cdot $		1530 CENTER PAR CHARLOTTE, N		,
D	1		UNITED ST		
EET) CLEAR) (XR-10-168A)	12		REVISION	IS	
-M1)	8		DESCRIPTION	DATE	REV
JFO-CL-01-A1)	40		AS BUILT	08/04/2023 08/17/2023	A
TP-40MM-M1)	8				
MENTS (QM-HUG-01-M1)	2				
	<u> </u>				
1430-01-M1)	68				
BHW-SQ-02-A1)	34				
TER)			KYLE ECKLEY RESIDENCE	136 PARKVIEW LN, LILLINGTON, NC 27546 ssadd	
			DRAWN B		
RTER		 	SHEET NA		
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ITY METER		L r	SHEET SIZ	7E	
I SERVICE PANEL		$\left \right \right $	ANSI		
, ATTIC FAN (ROOF OBSTRU	CTION)	$\left \right \right $	11" X 1		
F ATTACHMENT					
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W/ THA 10F 2" W/ THA 10F 2 W/ THA 10F 2 W/ THA 10 W/ THA 10F 2 W/ THA 10F 20 W/ THA 10F 20		SOLAR SOLU TOP TIER SOLAR 1530 CENTER PAR CHARLOTTE, N UNITED ST REVISION DESCRIPTION INITIAL DESIGN	SOLUTIONS SOLUTIONS SK DR #2911, IC 28217, ATES NS DATE 08/04/2023
W/ TH A 1 OF 2" W/ TH A 1 OF 2" W/ THA 1 OF 2" W/ THA 1 OF 2" URAWN BY ESR SHEET NAME STRUCTURAL DETAIL SHEET SIZE ANSI B 11" X 17" SHEET NUMBER		NIN PRTH CA	ER. SUMMUL ONLY
TH A 1 OF 2" BRAWN BY ESR SHEET NAME STRUCTURAL DETAIL SHEET SIZE ANSI B 11" X 17" SHEET NUMBER			l, 146
	THA	ESR SHEET NA STRUCTURAL SHEET SI ANSI 11" X 1 SHEET NUW	ME DETAIL ZE B 1 7 "



NEEDS TO BE INSTALLED IN FORMER-LESS TYPE. LICED, OR SPLICED TO EXIS PV SYSTEM CONNECTION T HALL BE CORRECTED PRIOF EMENT SUBJECT TO CHANG CTRICAL DIAGRAM REPRES I SCHEDULE OPTIONAL IF O WITHIN 10' OF SERVICE DIS SUNLIGHT ON ROOFTOPS S ROOF USING CONDUIT SUPF	STING THAT IS R TO FINAL GE IN THE ENT WIRE THER CONNECT. SHOULD BE	TOP TIER SOLAR 1530 CENTER CHARLOT UNITE	TIER SOLUTIONS AR SOLUTIONS PARK DR #2911, TE, NC 28217, D STATES (ISIONS DATE REV 08/04/2023				
RE COPPER		AS BUILT	08/17/2023 A				
hÓUSE 24 (E) MAIN SI PANEL,SQU 200A RATE LOAD SIDE INTERCON MAIN SERV PER ART. 7 BACK-FEED REF 2017 NEC 7	L1 L2 N IONAL ETER 1¢, 3-W REAKER TO 0V, 200A/2P ERVICE JARE D-QO D, 240V NECTION AT ICE PANEL 05.12 BREAKER 05.12(B)(2)(3)(b)	PROJECT NA KALE ECKLEY RESIDENCE	136 PARKVIEW LN, LILLINGTON, NC 27546				
NOTE: CONDUIT TO BE UL WET LOCATIONS AND UV			DRAWN BY ESR				
CONDUIT TYPE	CONDUIT SIZE		ET NAME				
N/A	N/A	ELECTRICAL	LINE DIAGRAM				
EMT OR LFMC IN ATTIC	3/4"		et size ISI B				
EMT,LFMC OR PVC	3/4"	11"	X 17"				
EMT, LFMC OR PVC	3/4"	SHEET NUMBER PV-6					

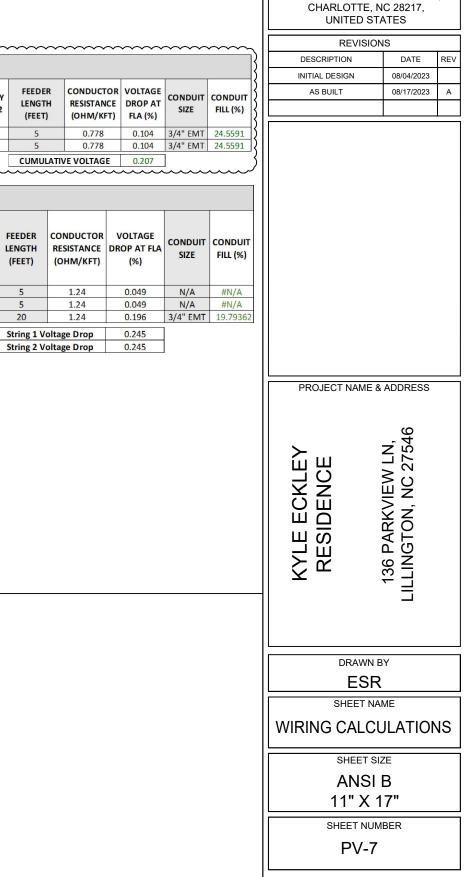
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<b>\</b>		
SOLAR	MODULE SPECIFICATIONS		INVERTER	R SPECIFICATIONS	AMBIENT TEMPERATURE SPECS			
		MANUFACTURER /	MODEL #	SOLAREDGE: SE7600H-	US (240V/7600W)	AMBIENT TEMP (HIGH TEMP 2%)		
MANUFACTURER / MODEL 3	MISSION SOLAR: MSE395SX9R 395W MODULE	>		INVERTER		RECORD LOW TEMPERATURE	-11°	
		NOMINAL AC POW	ER	7.600 kW		MODULE TEMPERATURE COEFFICIENT OF Voc -0.2		
		NOMINAL OUTPUT VOLTAGE		240 VAC		<u>}</u> ـــــ		
VMP	36.99V	NOMINAL OUTPUT CURRENT 32.00A				$\langle$		
IMP	10.68A					)		
VOC	45.18V	PERCENT OF	NUMBE	R OF CURRENT				
ISC	11.24A	VALUES	CARRYING C	ONDUCTORS IN EMT		7		
TEMP. COEFF. VOC	-0.259%/°C	.80		4-6				
MODULE DIMENSION	75.08"L x 41.50"W x 1.57"D (In Inch)	.70		7-9				
	· · · · · · · · · · · · · · · · · · ·	.50		10-20			$\wedge$	
					-	,	/A\	

(	AC FEEDER CALCULATIONS																		
	CIRCUIT ORIGIN		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)	DERATION FACTOR FOR AMBIENT TEMPERATURE NEC 310.15(B)(2)(a)	FOR CONDUCTORS		AMPACITY CHECK #2	FEEDER LENGTH (FEET)
(	INVERTER	AC DISCONNECT	240	32	40	40	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	32	40	40	CU #8 AWG	CU #10 AWG	CU #8 AWG	50	PASS	38	2	55	0.91	1	50.05	PASS	5
i																			CUMULATIV

	DC FEEDER CALCULATIONS																	
	CIRCUIT DESTINATION	VOLTAGE (V)	FULL LOAD AMPS "FLA" (A)	EI A*1 25	OCPD SIZE (A)	GROUND SIZE	CONDUCTOR SIZE	75°C AMPACITY (A)	AMPACITY CHECK #1	AMBIENT TEMP. (°C)	TOTAL CC CONDUCT ORS IN RACEWAY	AMPACITY (A)	FOR AMBIENT	DERATION FACTOR FOR CONDUCTORS PER RACEWAY NEC 310.15(B)(3)(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	1
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	1
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	20	1
																	r	

#### 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.
- MODULE GROUNDING CLIPS TO BE INSTALLED BETWEEN MODULE FRAME AND MODULE SUPPORT RAIL, PER THE 8. 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.
- TEMPERATURE RATINGS OF ALL CONDUCTORS, TERMINATIONS, BREAKERS, OR OTHER DEVICES ASSOCIATED WITH 10. THE SOLAR PV SYSTEM SHALL BE RATED FOR AT LEAST 75 DEGREE C.



**TOP TIER** 

SOLAR SOLUTIONS

TOP TIER SOLAR SOLUTIONS 1530 CENTER PARK DR #2911,

## 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:

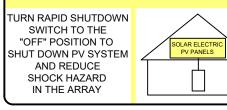
# BREAKER IS BACKFED DO NOT RELOCATE

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



LABEL 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)

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<u>۱</u>
AC DISCONNECT PHOTOVOLTAIC SYST POWER SOURCE		
NOMINAL OPERATING AC VOLATGE	240 V	}
RATED AC OUTPUT CURRENT	32.00 A	}
LABEL- 9: <u>LABEL LOCATION:</u> AC DISCONNECT CODE REF: NEC 690.54		
	480 V	
MAXIMUM CIRCUIT CURRENT	20.00 A	{
MAXIMUM RATED OUTPUT CURRENT OF THE CHARGE CONTROLLER OR DC-TO-DC CONVERTER (IF INSTALLED)		
LABEL- 10: LABEL LOCATION: ON THE RIGHT SIDE OF THE INVERTER CODE REF: NEC 690.53	R (PRE-EXISTING ON THE INVERTER)	

TOP	-							
TOP TIER SOLAR SOLUTIONS								
1530 CENTER CHARLOT UNITE	ΓE, N	C 28217,	1,					
BEV	ISION	s						
DESCRIPTION		DATE	REV					
INITIAL DESIGN		08/04/2023						
AS BUILT		08/17/2023	А					
	UNN B	136 PARKVIEW LN, LILLINGTON, NC 27546						
	SR							
SHEE								
AN	ET SIZ	В						
11"	X 1	7"						
SHEET P\	NUM /-8	BER						

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

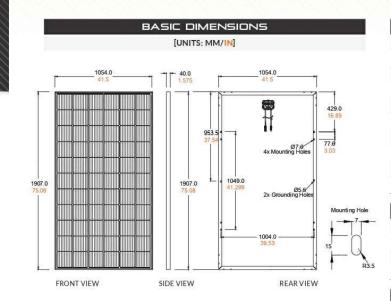
BAA Compliant for Government Projects

 Buy American Act American Recovery & Reinvestment Act



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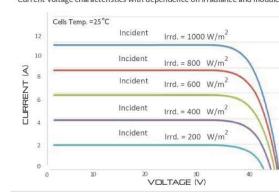
Class Leading 390-400W



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	MSExxxSX9R (xxx = Pmax)									
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 Temperature (NOCT) 43.75°C (±3.7%) Temperature Coefficient of Pmax -0.367%/°C Temperature Coefficient of Voc -0.259%/°C Temperature Coefficient of Isc 0.033%/°C

OPERAT

Maximum System Volta **Operating Temperature Rang** 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

	5 CONDITIONS
ge	1,000Vdc
ge	-40°F to 185°F (-40°C to +85°C)
ng	20A
on	Type 1*
ad d)	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	08/04/2023					
AS BUILT	08/17/2023	А				

PROJECT NAME & ADDRESS

KYLE ECKLEY RESIDENCE

136 PARKVIEW LN, ILLINGTON, NC 27546

DRAWN BY

ESR

SHEET NAME EQUIPMENT **SPECIFICATION**

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

PV-9

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

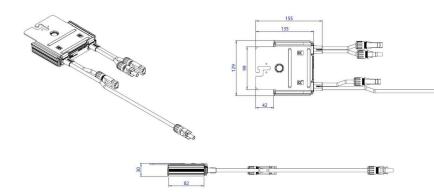
/ Power Optimizer For Residential Installations S440, S500

	S440	S500	UNI
-			
Rated Input DC Power®	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	CONNECTED FROM INVERTER OR IN	VERTER OFF)	
Safety Output Voltage per Power Optimizer	1		Vdo
STANDARD COMPLIANCE			3
EMC	FCC Part 15 Class B, IEC61000-6-2, IEC	51000-6-3, CISPR11, EN-55011	
Safety	IEC62109-1 (class II safety), UL1741		
Material	UL94 V-0, UV Re	sistant	
RoHS	Yes		
Fire Safety	VDE-AR-E 2100-712:2013-05		
INSTALLATION SPECIFICATIONS			
Maximum Allowed System Voltage	1000		Vdc
Dimensions (W x L x H)	129 x 155 x 3	0	mm
Weight (including cables)	655 / 1.5		gr/l
Input Connector	MC4 ⁽²⁾		
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 / NEMA	6P	
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 Inverter	a SolarEdge	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 O	ptimizers)	25	50		
Maximum Nominal Power per Stri	ing ⁽⁴⁾	5700	11250(5)	12750(6)	W
Parallel Strings of Different Length	s 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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TOP TIER SOLAR SOLUTIONS

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

REVISIONS						
DESCRIPTION	DATE	REV				
INITIAL DESIGN	08/04/2023					
AS BUILT	08/17/2023	А				

PROJECT NAME & ADDRESS

KYLE ECKLEY RESIDENCE

136 PARKVIEW LN, LILLINGTON, NC 27546

DRAWN BY

ESR

SHEET NAME

EQUIPMENT

SPECIFICATION SHEET SIZE

ANSI B

11" X 17"

SHEET NUMBER

CE RoHS

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

solaredge.com

/ 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	SE7600H-US	SE10000H-US	SE11400H-US	UNITS
OUTPUT - AC ON GRID							
Rated AC Power	3000	3800 @ 240V 3300 @ 208V	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	W
Maximum AC Power Output	3000	3800 @ 240V 3300 @ 208V	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	W
AC Frequency Range (min - nom - max)			59.3 - 60) - 60.5 ¹²¹			Hz
Maximum Continuous Output Current @ 240V	12.5	16	25	32	42	47.5	A
Maximum Continuous Output Current @ 208V	-	16	24	-	-	48.5	A
GFDI Threshold			1				A
Total Harmonic Distortion (THD)			<	3			%
Power Factor	1		1, adjustable	-0.85 to 0.85			
Utility Monitoring.IslandingProtection,Country ConfigurableThresholds			Ye	es			
Charge Battery from AC (if allowed)			Ye	2S			
Typical Nighttime Power Consumption			<2	.5			W
OUTPUT - AC BACKUP ⁽³⁾							
Rated AC Power in Backup Operation®	3000	3800	6000	7600	10000	10300	W
AC L-L Output Voltage Range in Backup		7600*	211 -	10300* 264			Vac
AC L-N Output Voltage Range in Backup	105 - 132						Vac
AC Frequency Range in Backup (min - nom - max)	55 - 60 - 65					Hz	
Maximum Continuous Output Current in Backup Operation	12.5	16	25	32	42	43	A
		32*		43*			
GFDI							A
THD			<	5			%
OUTPUT - SMART EV CHARGER AC				-2.005.0			
Rated AC Power			96				W
AC Output Voltage Range			211 -				Vac
On-Grid AC Frequency Range (min - nom - max)			59.3 - 6				Hz
Maximum Continuous Output Current @240V (grid, PV and battery)			4	0			Aac
INPUT - DC (PV AND BATTERY)							
Transformer-less, Ungrounded			Ye	es			
MaxInput Voltage			48	30			Vdc
Nom DC Input Voltage			38	30			Vdc
Reverse-Polarity Protection			Ye	25			
Ground-Fault Isolation Detection			600kΩ S	ensitivity			
INPUT - DC (PV)							
Maximum DC Power @ 240V	6000	7600 15200*	12000	15200 22800*	22000	22800	W
Maximum DC Power @ 208V	E	6600	10000	-	2	20000	W
Maximum Input Current ⁽⁹⁾ @ 240V	8.5	10.5 20*	16.5	20 31*	27	31	Adc
Maximum Input Current ⁽⁵⁾ @ 208V	-	9	13.5	-	12	27	Adc
Max. Input Short Circuit Current			4	5		1992	Adc
Maximum Inverter Efficiency	99			99.2			%
CEC Weighted Efficiency		4	99			99 @ 240V 98.5 @ 208V	%
	Yes				-		

* Supported with PN SExxxH-USMMxxxxxx or SExxxH-USMNxxxxx

(2) These specifications apply to inverters with part numbers SbooxH-USSMxxxxx or SbooxH-USSNxxxxx 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 are 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





HOME BACKUP

TOP TI IER SOLAR SOLUTI TOP TIER SOLAR SOLUTIONS 1530 CENTER PARK DR #2911, CHARLOTTE, NC 28217, UNITED STATES REVISIONS DESCRIPTION DATE REV INITIAL DESIGN 08/04/2023 AS BUILT 08/17/2023 **PROJECT NAME & ADDRESS** 136 PARKVIEW LN, ILLINGTON, NC 27546 KYLE ECKLEY RESIDENCE DRAWN BY ESR SHEET NAME EQUIPMENT **SPECIFICATION** SHEET SIZE ANSI B 11" X 17" SHEET NUMBER **PV-11**

/ 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 Banl	k, LG RESU Prime ⁽⁶⁾		
Number of Batteries per Inverter		Up to 3 Sc	arEdgeEnergyBar	nk, up to 2 LG RESL	J Prime	
Continuous Power ⁿ	6000	7600		100	000	W
Peak Power [®]	6000	7600		100	000	W
Max Input Current	16	20		26	6.5	Adc
2-pole Disconnection			Ye	es		
SMART ENERGY CAPABILITIES						
Consumption Metering	1		Built	- in ^{na}		Ì
Backup & Battery Storage	With Ba	ickup Interface (pui	chased separately)	for service up to 20	00A; Up to 3 inverters	
EV Charging			Direct connection t	o Smart EV charge	r	
ADDITIONAL FEATURES						
Supported Communication Interfaces	RS485, Ethernet, Cellular ⁹ , Wi-Fi (optional), SolarEdge Energy Net (optional)					
Revenue Grade Metering, ANSI C12,20			Built	- in ^{iai}		
Integrated AC, DC and Communication Connection Unit			Ye	BS		
Inverter Commissioning	With the	SetApp mobile app	lication using built-i	in Wi-Fi Access Poir	nt 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	A, UL1741 PCS, UL16	99B, UL1998, UL95	40, CSA 22.2	
Grid Connection Standards			IEEE1547, Rule	e 21, Rule 14H		
Emissions			FCC part	15 class B		
INSTALLATION SPECIFICATIONS						
AC Output and EV AC Output Conduit Size / AWG Range			1" maximum	/ 14-4 AWG		
DC Input (PV and Battery) Conduit Size / AWG Range			1" maximum	9 A 10 22 11 10 823 C		
				17.7 x 14.6 x 6.8 / 450 x 370 x 174		
Dimensions with Connection Unit (H x W x D)	17.7×1	4.6 x 6.8 / 450 x 37	0 x 174	450 X 370 X 174	17.7 x 14.6 x 6.8 / 450 x 370 x 174	in/m
		1.0 4 0.07 100 4 07	on n r	450 x 370 x 174*		
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 G	onvection		
Operating Temperature Range			-40 to +140/	-40 to +60 ^{p0}		°F/°C
Protection Rating			NEN	/A 4		

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

(a) The part influences sextuan-ossive control support the solar bug energy bank and LG hes of Philhe backup applications
 (b) For consumption metering current transformers should be ordered separately. SECT-91-22 SA-T-20 or SEACT0750-400NA-20 units per box. Revenue grade metering is only for production metering
 (c) Plotfarge power is limited up to the inverter rated AC power for on-grid and backup applications
 (e) For consumption metering the Data Han'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

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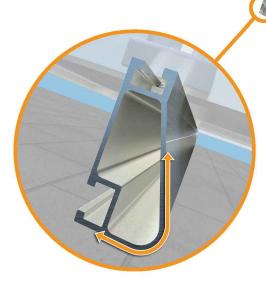
XR Rail Family

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

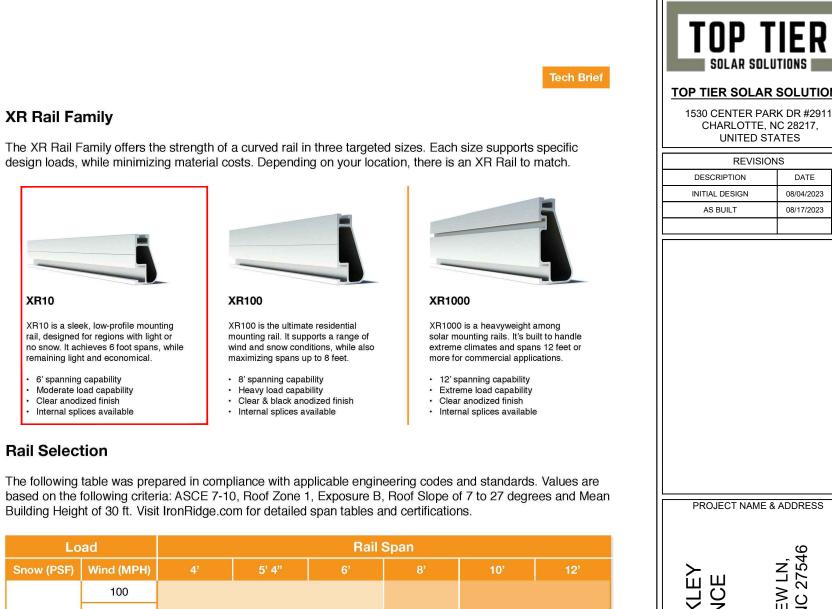




Corrosion-Resistant Materials

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.





XR1000

Rail Selection

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				

SOLAR SOLUTIONS TOP TIER SOLAR SOLUTIONS 1530 CENTER PARK DR #2911, CHARLOTTE, NC 28217, UNITED STATES REVISIONS DATE REV INITIAL DESIGN 08/04/2023 08/17/2023 **PROJECT NAME & ADDRESS** 136 PARKVIEW LN, LILLINGTON, NC 27546 KYLE ECKLEY RESIDENCE 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

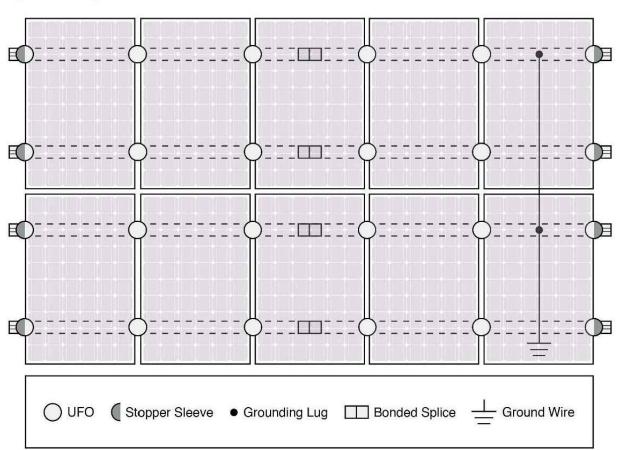
rail. It is installed with the

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		

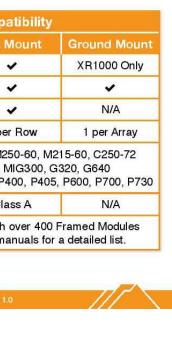
Bonded Splice Each Bonded Splice uses

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.





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TOP TIER SOLAR SOLUTIONS

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

REVISIONS					
DESCRIPTION	DATE	REV			
INITIAL DESIGN	08/04/2023				
AS BUILT	08/17/2023	А			

PROJECT NAME & ADDRESS

KYLE ECKLEY RESIDENCE 136 PARKVIEW LN, LILLINGTON, NC 27546

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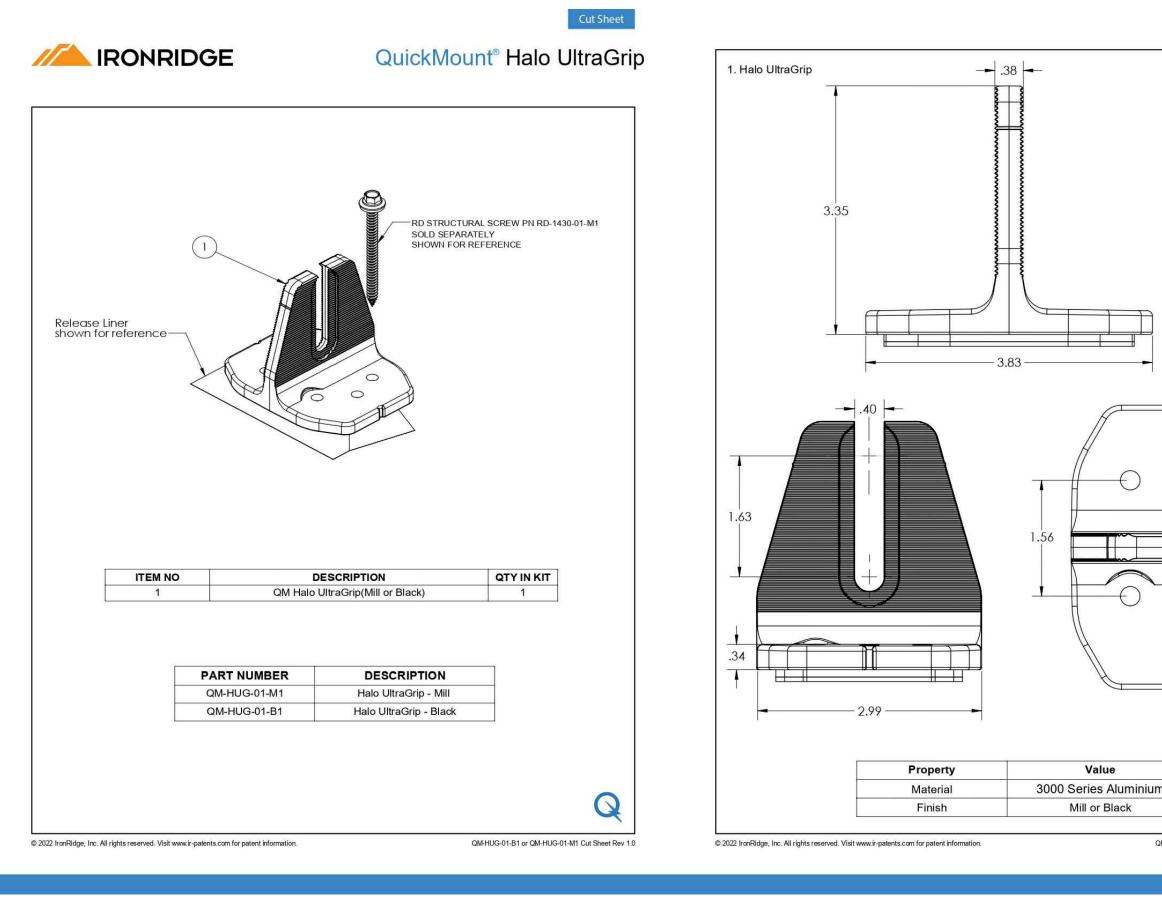
SHEET NAME EQUIPMENT SPECIFICATION

SHEET SIZE

11" X 17"

SHEET NUMBER

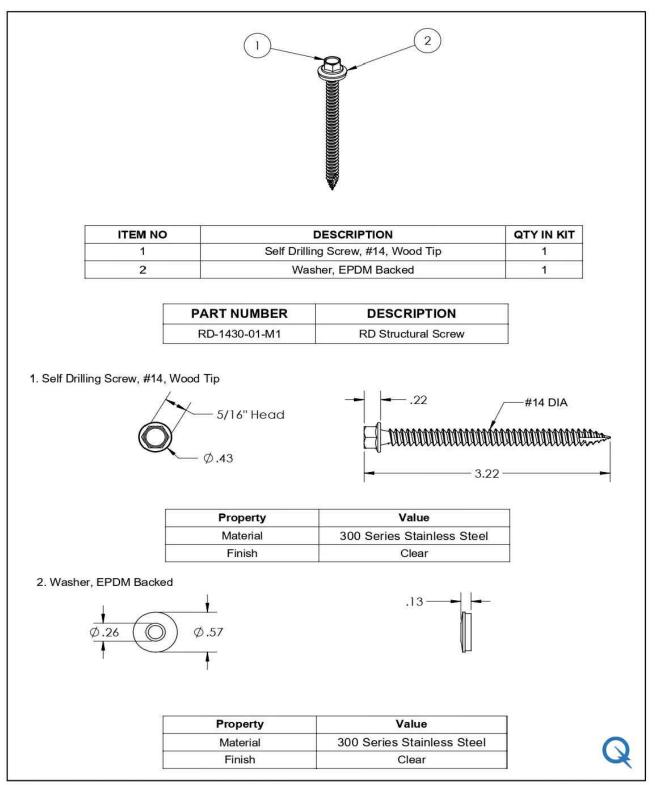
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Cut Sheet	TOP TIER SOLAR SOLUTIONS		
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	INITIAL DESIGN	08/04/2023	
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		136 PARKVIEW LN, LILLINGTON, NC 27546	
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MHUG-01-B1 or QM-HUG-01-M1 Cut Sheet Rev 1.0			
	SHEET SIZE ANSI B 11" X 17"		
	SHEET NUM PV-1		

11

IRONRIDGE QuickMount® RD Structural Screw



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

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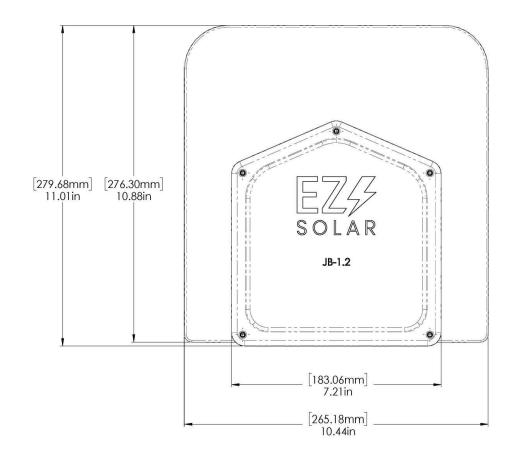
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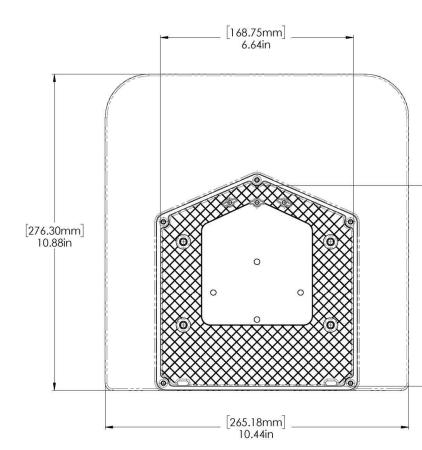


ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	JB-1.2 BODY	POLYCARBONATE WITH UV INHIBITORS	1
2	JB-1.2 LID	POLYCARBONATE WITH UV INHIBITORS	1
3	#10 X 1-1/4" PHILLIPS PAN HEAD SCREW		6
4	#8 X 3/4" PHILLIPS PAN HEAD SCREW		6

size B	dwg. No.	8-1.2		REV
SCALE: 1:2	WEIGHT: 1.45 LBS SHEE		T 1 OF 3	
TORQUE SPEC	IFICATION: 15-20 L		.BS	
CERTIFICATION:		UL 1741, NEMA 3R CSA C22.2 NO. 290		
WEIGH	IT:	1.	45 L B	S











_ [72.53mm] _ 2.86in

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

^{G. NO.} JB-1.2	REV	
NEIGHT: 1.45 LBS	SHEET 2 OF 3	



TOP TIER SOLAR SOLUTIONS

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

REVISIONS			
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[175.66mm] 6.92in

