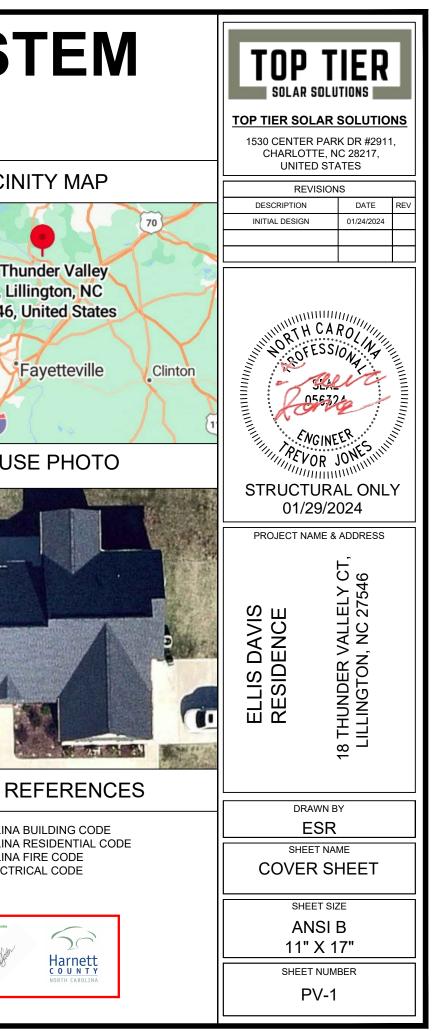
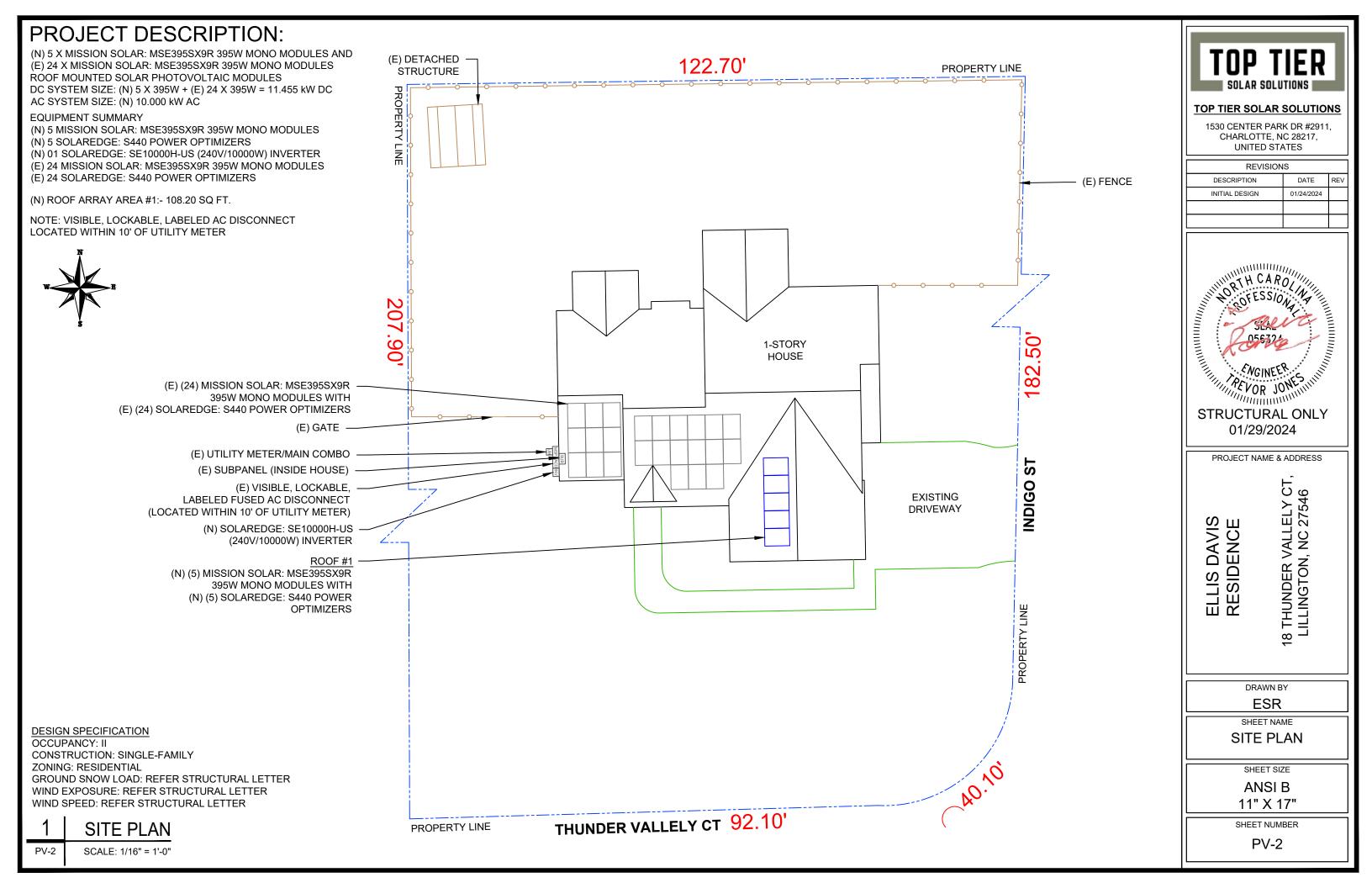
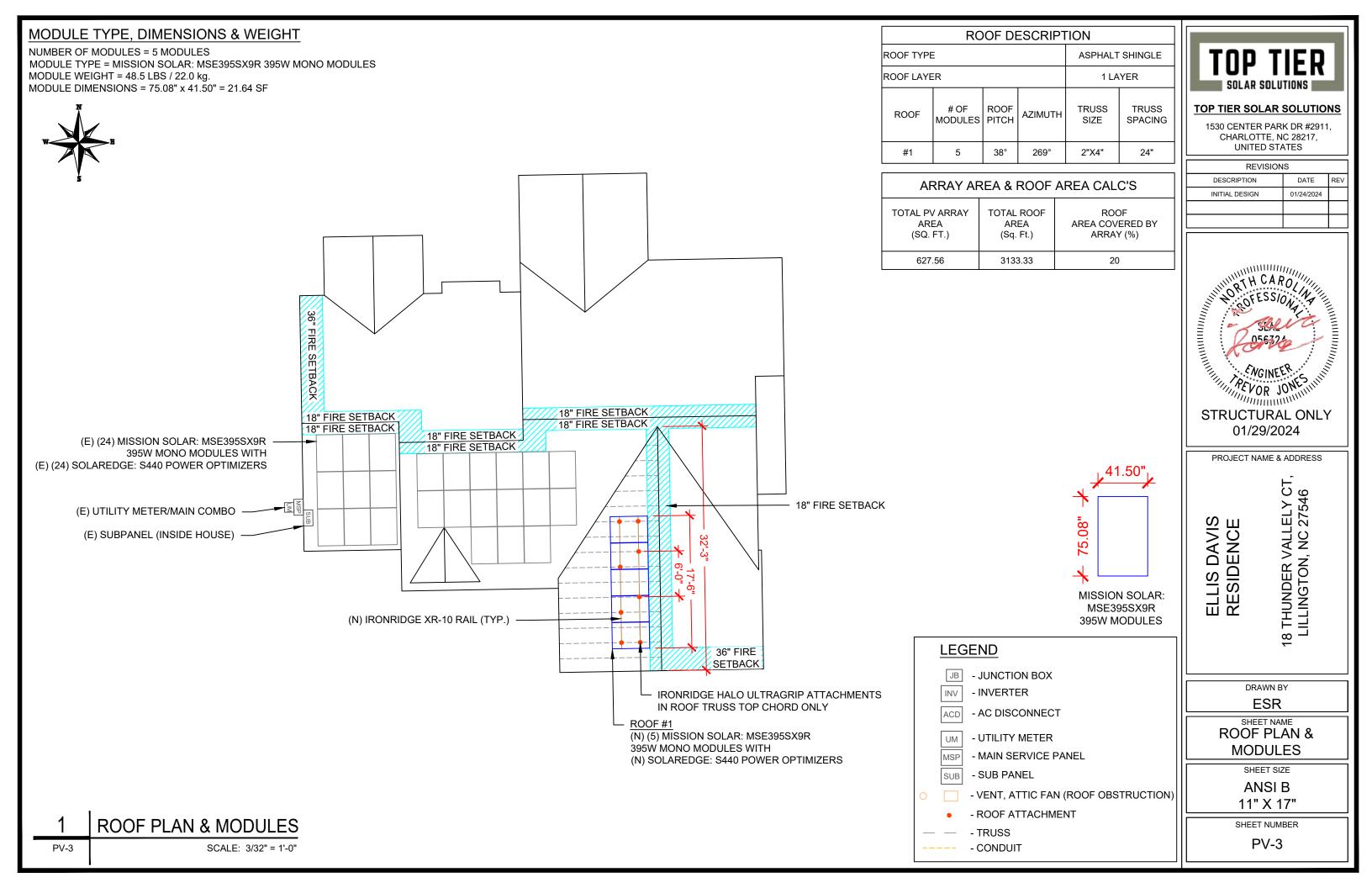
(E) 24 + (N) 5 MODULES-ROOF MOUNTED - 11.455 KW DC, 10.000 KW AC

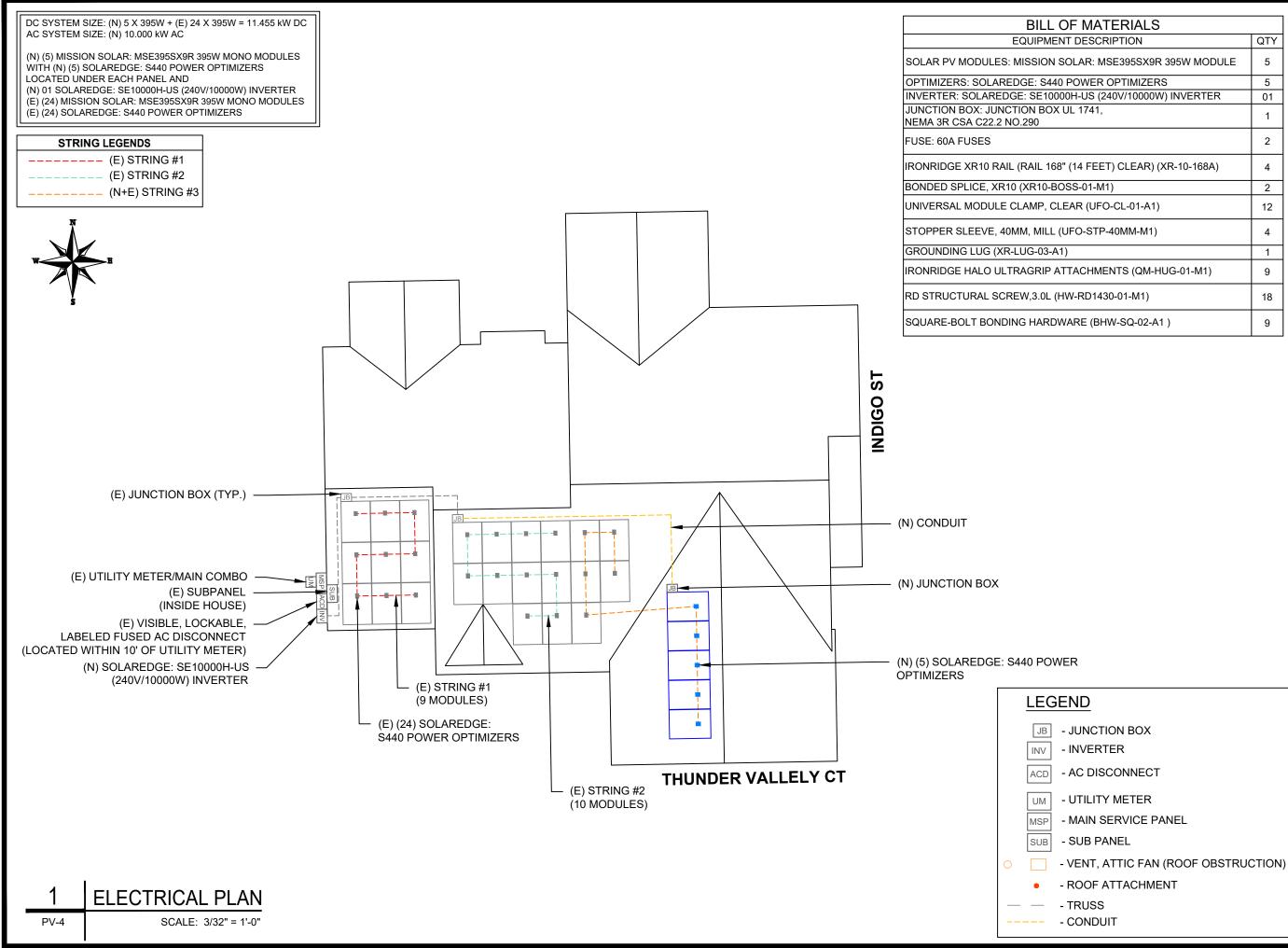
18 THUNDER VALLELY CT, LILLINGTON, NC 27546

PI	ROJECT DATA		GENERAL NOTES		VICI
PROJECT ADDRESS	18 THUNDER VALLELY CT, LILLINGTON, NC 27546		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.	2	Sanford
OWNER:	ELLIS DAVIS	3.	THE UTILITY INTERCONNECTION APPLICATION MUST BE APPROVED AND PV SYSTEM INSPECTED PRIOR TO PARALLEL OPERATION.	Y	18 Th Ct, Li
DESIGNER: SCOPE:	ESR	4.	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.	1	27546,
SÓLAR PV SY	DC ROOF MOUNT STEM WITH I SOLAR: MSE395SX9R 395W	5.	WHERE METALLIC CONDUIT CONTAINING DC CONDUCTORS IS USED INSIDE THE BUILDING, IT SHALL BE IDENTIFIED AS "CAUTION: SOLAR CIRCUIT" EVERY 10FT.	1	K
PV MODULES			HEIGHT OF THE AC DISCONNECT SHALL NOT EXCEED 6'-7" PER NEC CODE 240.24.		Fr-1
	EDGE: SE10000H-US (240V/10000W)	7.	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	5	95
	DC ROOF MOUNT		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
SOLAR PV SY (E) 24 MISSIO	STEM WITH N SOLAR: MSE395SX9R 395W	8.	PHOTOVOLTAIC MODULES ARE TO BE CONSIDERED NON-COMBUSTIBLE.		
PV MODULES (F) 24 SOLAR	WITH EDGE: S440 POWER OPTIMIZERS	9.	PHOTOVOLTAIC INSTALLATION WILL NOT OBSTRUCT ANY PLUMBING. MECHANICAL, OR BUILDING ROOF VENTS.		
. ,	AVING JURISDICTION:	10	. 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.	4 C 4	
ZONING: HARNE		11	. 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.		
SHEET INI	DEX	12	. INVERTER(S) USED IN UNGROUNDED SYSTEM SHALL BE UL 1741 LISTED.		
PV-1 COV	ER SHEET PLAN	13	. THE INSTALLATION OF EQUIPMENT AND ALL ASSOCIATED WIRING AND INTERCONNECTION SHALL BE PERFORMED ONLY BY QUALIFIED PERSONS [NEC 690.4(C)]		
PV-3 ROC	F PLAN & MODULES CTRICAL PLAN	14	. ALL OUTDOOR EQUIPMENT SHALL BE NEMA 3R RATED (OR BETTER), INCLUDING ALL ROOF MOUNTED TRANSITION BOXES AND SWITCHES.		Vora A
	JCTURAL DETAIL CTRICAL LINE DIAGRAM	15	. ALL EQUIPMENT SHALL BE PROPERLY GROUNDED AND BONDED IN ACCORDANCE WITH NEC ARTICLE 250.		and the second
PV-7 WIR	NG CALCULATIONS	16	. SYSTEM GROUNDING SHALL BE IN ACCORDANCE WITH NEC 690.41.		
PV-8 LABE PV-9+ EQU	ELS IPMENT SPECIFICATIONS	17	. PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION IN ACCORDANCE WITH NEC 690.12		CODE R
<u>SIGNATU</u>	RE	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)]	20)18 NORTH CAROLINA
		19	. ALL WIRING METHODS SHALL BE IN ACCORDANCE WITH NEC 690.31	20	18 NORTH CAROLINA
		20	. WORK CLEARANCES AROUND ELECTRICAL EQUIPMENT WILL BE MAINTAINED PER NEC 110.26(A)(1), 110.26(A)(2) AND 110.26(A)(3).		17 NATIONAL ELECT
		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.		NOTICE TO CONTRACTOR At constructions and controls with a number ND Building Codes and a withcase. Start Star









TERIALS	
CRIPTION	QTY
MSE395SX9R 395W MODULE	5
R OPTIMIZERS	5
(240V/10000W) INVERTER	01
3	1
	2
ET) CLEAR) (XR-10-168A)	4
М1)	2
FO-CL-01-A1)	12
P-40MM-M1)	4
	1
IENTS (QM-HUG-01-M1)	9
430-01-M1)	18
HW-SQ-02-A1)	9



TOP TIER SOLAR SOLUTIONS

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

REVISION	S	
DESCRIPTION	DATE	REV
INITIAL DESIGN	01/24/2024	

PROJECT NAME & ADDRESS

ELLIS DAVIS RESIDENCE

18 THUNDER VALLELY CT LILLINGTON, NC 27546

DRAWN BY

ESR

SHEET NAME

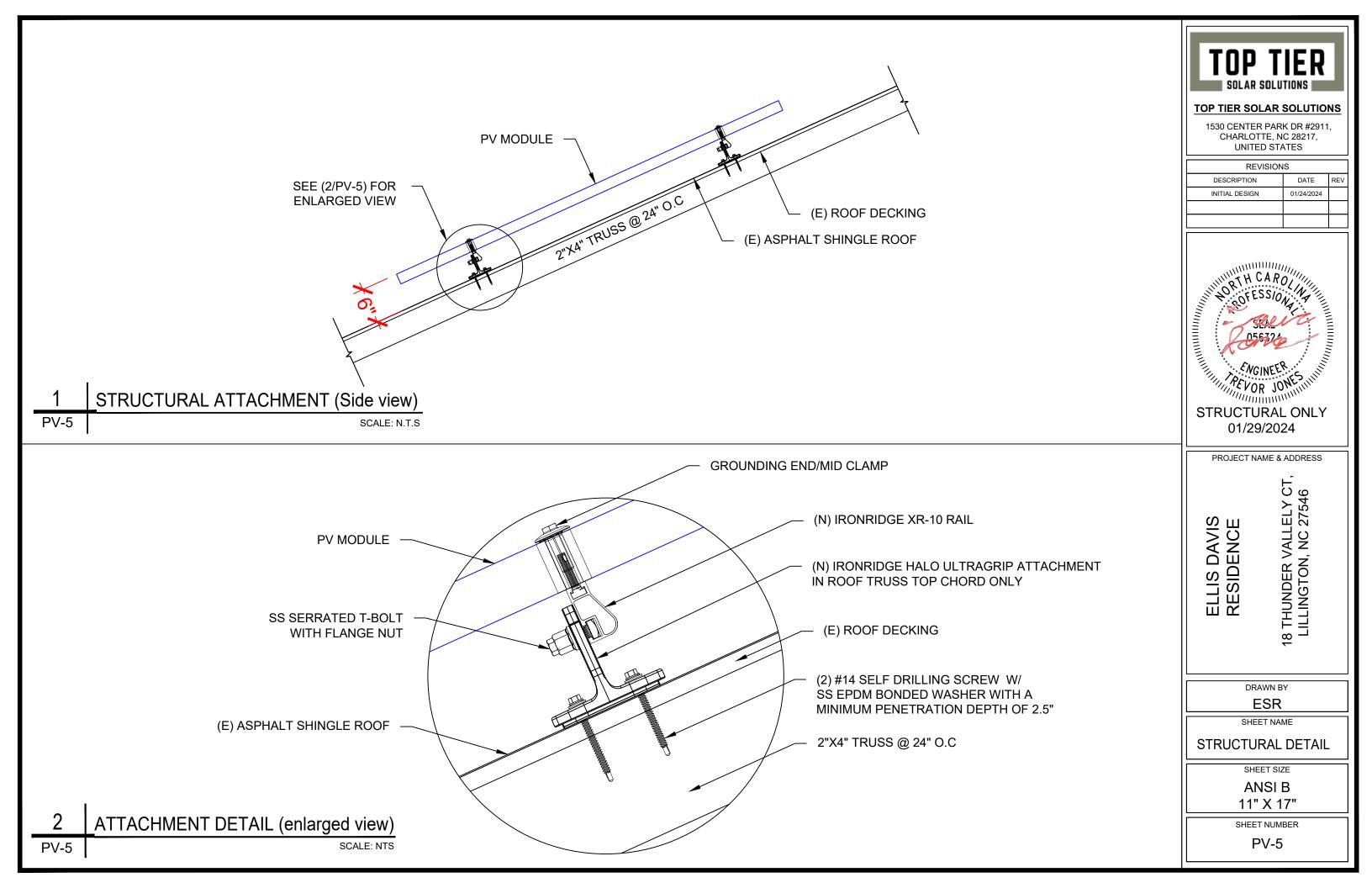
ELECTRICAL PLAN

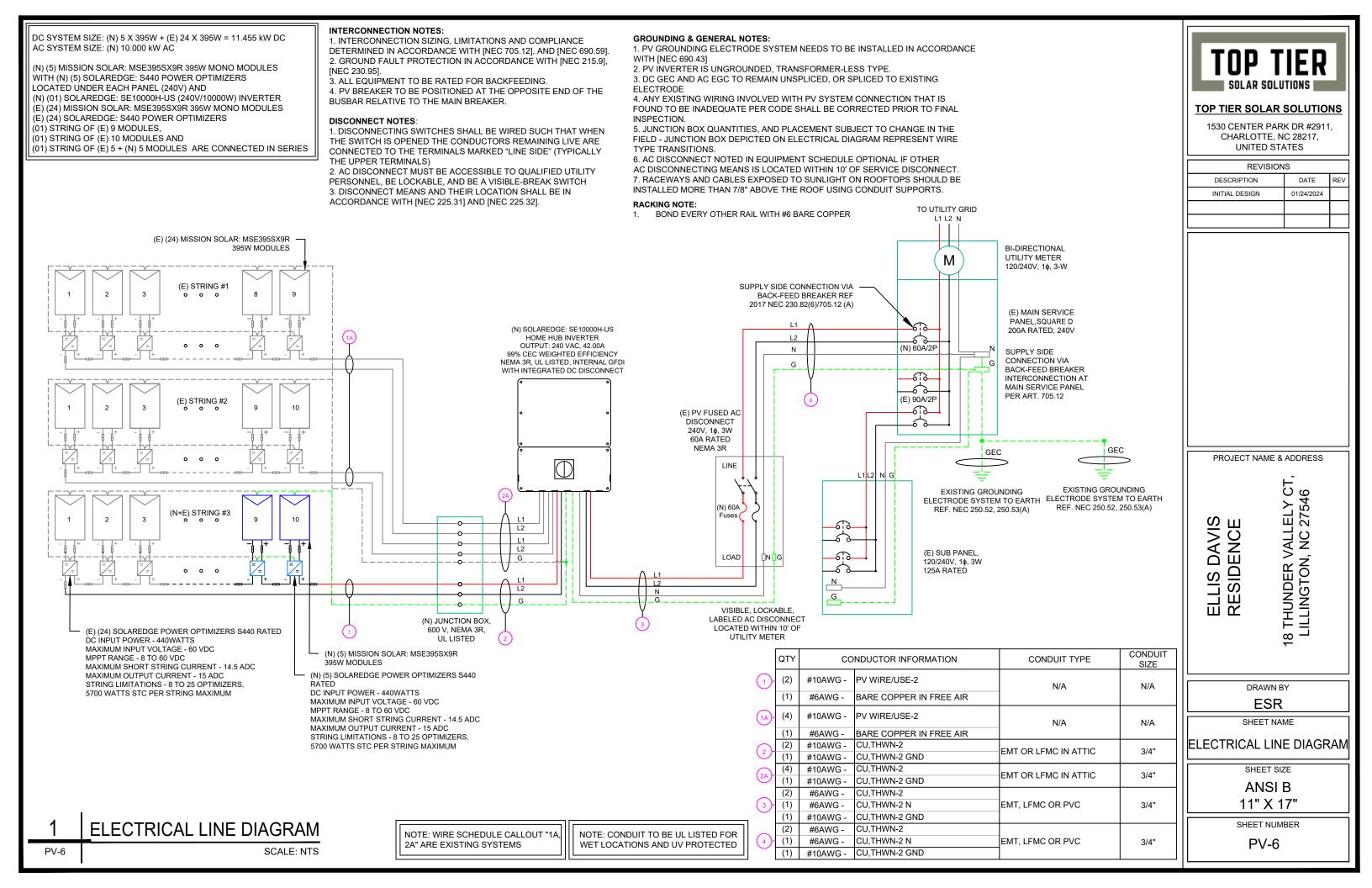
SHEET SIZE

ANSI B

11" X 17"

SHEET NUMBER





SOLAR MODULE SPECIFICATIONS		INVERTER	R SPECIFICATIONS	AMBIENT TEMPERATURE SPECS		
MANUFACTURER / MODEL # MISSION SOLAR: MSE395SX9		NOMINAL AC POWER		I-US (240V/10000W)	AMBIENT TEMP (HIGH TEMP 2%) RECORD LOW TEMPERATURE	
WAND ACTORER / WOBLE # WIGGION COLAR. WELSSON	NOMINAL AC F				MODULE TEMPERATURE COEFFICIENT OF Voc	-0.259%/°C
VMP 36.99V IMP 10.68A		PUT VOLTAGE PUT CURRENT	240 VAC 42.00A			
VOC 45.18V ISC 11.24A	PERCENT OF VALUES	-	R OF CURRENT			
TEMP. COEFF. VOC -0.259%/°C	.80		4-6 7-9			
MODULE DIMENSION 75.08"L x 41.50"W x 1.57"D (In I	ch) .50		10-20	1		

									D	C FEEDER CA	LCULATIONS	;						
CIRCUIT ORIGIN	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)	COND RESIST (OHN
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.
STRING 3	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	6	40	0.91	0.8	29.12	PASS	20	1.
																1	String 1 Vo	oltage

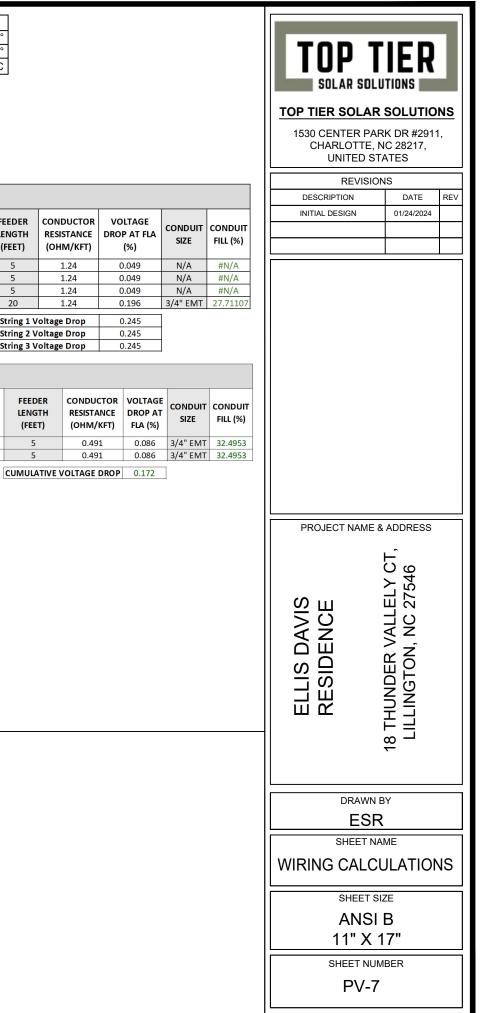
String 2 Voltage Drop

String 3 Voltage Drop

											AC FEED	ER CALCULA	TIONS						
CIRC	CUIT 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 ΔΜΡΔΟΙΤΥ (Δ)	DERATION FACTOR FOR AMBIENT TEMPERATURE NEC 310.15(B)(2)(a)	FOR CONDUCTORS		AMPACITY CHECK #2	FEEDER LENGTH (FEET)
1	NVERTER	AC DISCONNECT	240	42	52.5	60	CU #6 AWG	CU #10 AWG	CU #6 AWG	65	PASS	38	2	75	0.91	1	68.25	PASS	5
AC	DISCONNECT	POI	240	42	52.5	60	CU #6 AWG	CU #10 AWG	CU #6 AWG	65	PASS	38	2	75	0.91	1	68.25	PASS	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.
- 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.
- 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

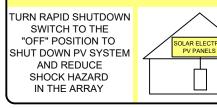
LABEL-4: <u>LABEL LOCATION:</u> MAIN SERVICE PANEL CODE REF: NEC 705.12(C) & NEC 690.59



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	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 SOLAR SOLUTIONS DESCRIPTION DATE REVISIONS DESCRIPTION DISCRIPTION DISCRIPTION DISCRIPTION DISCRIPTION PROJECT NAME & ADDRESS ISON SOLUTIONS DISCRIPTION NOT SOLUTION		
1530 CENTER PARK DR #2911, CHARLOTTE, NC 28217, UNITED STATES REVISIONS DESCRIPTION DATE REV INITIAL DESIGN 01/24/2024 INITIAL		
CHARLOTTE, NC 28217, UNITED STATES REVISIONS DESCRIPTION DATE REV INITIAL DESIGN 01/24/2024 UNITIAL DESIGN 01/24/2024 DESCRIPTION OTICA DESCRIPTION OTICA DESCRIPTION OTICA DESCRIPTION OTICA DRAWN BY ESR SHEET NAME LABELS SHEET SIZE ANSI B 11" X 17" SHEET NUMBER	TOP TIER SOLAR	R SOLUTIONS
DESCRIPTION DATE REV INITIAL DESIGN 01/24/2024	CHARLOTTE,	NC 28217,
INITIAL DESIGN 01/24/2024	REVISIO	ONS
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DRAWN BY ESR SHEET NAME LABELS SHEET SIZE ANSI B 11" X 17" SHEET NUMBER	PROJECT NAME	& ADDRESS
ESR SHEET NAME LABELS SHEET SIZE ANSI B 11" X 17" SHEET NUMBER	ELLIS DAVIS RESIDENCE	18 THUNDER VALLELY CT, LILLINGTON, NC 27546
LABELS SHEET SIZE ANSI B 11" X 17" SHEET NUMBER		
SHEET SIZE ANSI B 11" X 17" SHEET NUMBER	SHEET N	IAME
ANSI B 11" X 17" SHEET NUMBER		
SHEET NUMBER	ANS	ΙB
	11" X	17"

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 ENERGY

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.



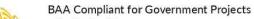
Certified Reliability

- 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



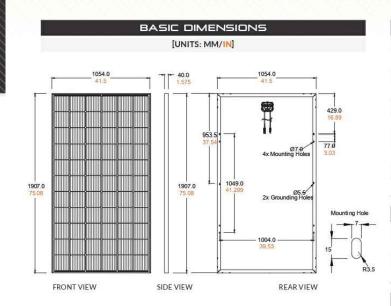
Buy American Act

American Recovery & Reinvestment Act



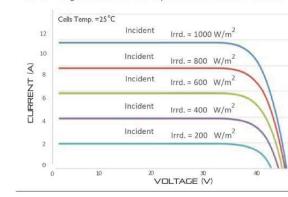
www.missionsolar.com | info@missionsolar.com

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 IEC 61215, 61730, 61701 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

ELECTRIC PRODUCT TYPE Power Output Module Efficiency Tolerance Short Circuit Current

Open Circuit Voltage Rated Current Rated Voltage Fuse Rating System Voltage

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 Ra Maximum Series Fuse Rat

> Fire Safety Classificat Front & Back Lo

(UL Stand Hail Safety Impact Veloc

*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.

	IVIC
P-1	Solar Cells
66	Cell Orientation
1,9	Module Dimension
48	Weight
3.2	Front Glass
40	Frame
Etl	Encapsulant
Pro	Junction Box
1.2	Cable
Sta	Connector

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

M	SE	PE	RC	66

AL SPECIFICATION	
------------------	--

MSE	xxxSX	9R (<mark>xxx</mark> = P	'max)	
Pmax	Wp	390	395	400
	%	19.4	19.7	19.9
	%	0/+3	0/+3	0/+3
lsc	А	11.19	11.24	11.31
Voc	V	45.04	45.18	45.33
Imp	А	10.63	10.68	10.79
Vmp	V	36.68	36.99	37.07
	А	20	20	20
	V	1,000	1,000	1,000

TEMPERATURE COEFFICIENTS

	5 CONDITIONS
age	1,000Vdc
nge	-40°F to 185°F (-40°C to +85°C)
ting	20A
tion	Type 1*
oad ard)	Up to 5,400 Pa front and 3,600 Pa back load, Tested to UL 61730
city	25mm at 23 m/s

MECHANICAL DATA

type mono-crystalline silicon

6 cells (6x11)

907mm x 1,054mm x 40mm

8.5 lbs. (22 kg)

2mm tempered, low-iron, anti-reflective

Omm Anodized

hylene vinyl acetate (EVA)

otection class IP67 with 3 bypass-diodes

2m, Wire 4mm2 (12AWG)

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

www.missionsolar.com | info@missionsolar.com

TOP TIER SOLAR SOLUTION

TOP TIER SOLAR SOLUTIONS

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

REVISION	IS	
DESCRIPTION	DATE	REV
INITIAL DESIGN	01/24/2024	

PROJECT NAME & ADDRESS

LIS DAVIS ESIDENCE RL

THUNDER VALLELY CT ILLINGTON, NC 27546 30

DRAWN BY

ESR

SHEET NAME EQUIPMENT **SPECIFICATION**

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

CERTIFICA	TE OF COMPLIANCE
Certificate Number Report Reference Date	E364743 E364743-20201208 2021-August-04
Issued to:	Mission Solar Energy LLC 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.
Standard(s) for Safety:	UL 61730-1, Photovoltaic (PV) Module Safety Qualification 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 <u>https://iq.ulprospector.com</u> 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.

Bampley

enhoi a Dreolor North American Certification Program Enine Ma UL LLC Any information and documentation involving UL Mark conducts are provided on behalf of ULLIC (UL) or any authorized licences of UL. For que clonic, plea co contracts local UL Culchemer Beruce Representative at http://ul.com/about/ul/costion.cv



CERTIFICATE OF COMPLIANCE

Certificate Number **Report Reference** Date

E364743 E364743-20201208 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

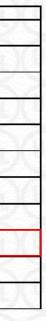
Photovoltaic Modules and Panels with System Voltage Ratings Over 600 Volts (QIIA) Models:

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

Bampley au ce Mahrenhoi a Drector North American Certitication Rogram UL LLC Any information and documentation involving UL Mark cervices are provided on behalf of UL LLC (UL) or any authorized licences of UL. Porque clond, pleace contracta local UL Curchmer Bervice Representative at http://ul.com/about/ul/acaston.c/







TOP TIER SOLAR SOLUTION

TOP TIER SOLAR SOLUTIONS

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

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PROJECT NAME & ADDRESS

ELLIS DAVIS RESIDENCE

18 THUNDER VALLELY CT LILLINGTON, NC 27546

DRAWN BY

ESR

SHEET NAME EQUIPMENT **SPECIFICATION**

SHEET SIZE

ANSI B

11" X 17"

SHEET NUMBER

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
- I 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
INPUT			
Rated Input DC Power®	440	50	00
Absolute Maximum Input Voltage (Voc)	6	Ö	125
MPPT Operating Range	8 -	60	12.5 - 105
Maximum Short Circuit Current (Isc) of Connected PV Module	14.5	ľ	15
Maximum Efficiency		99.	5
Weighted Efficiency		98.	6
Overvoltage Category		11	
OUTPUT DURING OPERTION			
Maximum Output Current		15	5
Maximum Output Voltage	6	0	
OUTPUT DURING STANDBY (POWER OPTIMIZER	DISCONNECTED	FROM INVERTER	OR INVERTER
Safety Output Voltage per Power Optimizer		1±	
STANDARD COMPLIANCE ⁽²⁾			
EMC	FCC Part	15 Class B, IEC61000-6-2,	IEC61000-6-3, CIS
Safety		IEC62109-1 (class	II safety), UL1741
Material		UL94 V-0, U	
RoHS		Ye	5
Fire Safety		VDE-AR-E 2100	0-712:2018-12
INSTALLATION SPECIFICATIONS			
Maximum Allowed System Voltage		100	0
Dimensions (W x L x H)	129 x 15	i5 x 30	1
Weight	72	0	
Input Connector		MC	4 ⁽³⁾
Input Wire Length		0,:	1
Output Connector		MC	4
Output Wire Length		(+) 2.3,	(-) 0.10
Operating Temperature Range ⁽⁴⁾		-40 to	+85
Protection Rating		IP6	8
Relative Humidity		0-1	100

(2) For details about CE compliance, see Declaration of Conformity - CE

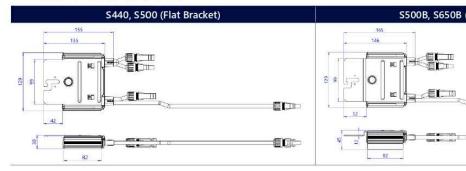
(3) For other connector types please contact SolarEdge.

(4) Power	de-rating is applied for ambient te	mperatures above +85°C for	5440 and 5500,	and for ambient temperatures a	bove +75°C for S500B. Refer to the
Power	Optimizers Temperature De-Rating	<u>I Technical Note</u> for details.			

PV System Design Usi	ng a SolarEdge 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 Pow	er per String	5700	5625	11250	12750	W
	ted Power per String naximum is permitted only when the between strings is 2,000W or less)	See ⁽⁶⁾	See ^{ra}	13500	15000	W
Parallel Strings of Different	Lengths or Orientations		Yes		1	

(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. Refer to Application Note: Single String Design Guidelines



solaredge.com



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10.5.05	
12.5 - 85	Vdc
	Ado
	%
	%
	Ado
80	Vdc
OFF)	
	Vdc
R11, EN-55011	1
1445 Austral 2013-1461	
	-
	1
	Vdc
9 x 165 x 45	mm
	gr
790	91
790	9.
790	m
790	
790	
790	m
790	m

S650B	UNI
650	W
85	Vdc
12.5 - 85	Vdc
	Adc
	%
	%
	1
	Adc
80	Vdc
OFF)	
	Vdc
11 EN-55011	1
111, EN-55011	
11, EN-55011	
	Vdc
1 x 165 x 45	Vdc mm
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T	OP	TI	ER
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TOP TIER SOLAR SOLUTIONS

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

REVISIONS			
DESCRIPTION	DATE	REV	
INITIAL DESIGN	01/24/2024		

PROJECT NAME & ADDRESS

ELLIS DAVIS RESIDENCE

18 THUNDER VALLELY CT LILLINGTON, NC 27546

DRAWN BY

ESR

SHEET NAME EQUIPMENT

SPECIFICATION

SHEET SIZE

ANSI B

11" X 17"

SHEET NUMBER

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 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

BACKUF

- 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		SEXXX	XH-USMNBBXXX	/ SEXXXXH-USSN	
	SE3800H-US	SE5700H-US	SE6000H-US	SE7600H-US	
OUTPUT – AC ON GRID					
Rated AC Power	3800 @ 240V 3300 @ 208V	5760 @ 240V 5000 @ 208V	6000 @ 240V 5000 @ 208V	7600	
Maximum AC Power Output	3800 @ 240V 3300 @ 208V	5760 @ 240V 5000 @ 208V	6000 @ 240V 5000 @ 208V	7600	
AC Output Voltage (Nominal)			208	/ 240	
AC Output Voltage (Range)	183 – 264				
AC Frequency Range (min - nom - max)			59.3 - 60	0 — 60.5 ⁽²⁾	
Maximum Continuous Output Current @ 240V	16	24	25	32	
Maximum Continuous Output Current @ 208V	16	24	24	-	
GFDI Threshold				1	
Total Harmonic Distortion (THD)			<	3	
Power Factor			1, adjustable	-0.85 to 0.85	
Utility Monitoring, Islanding Protection, Country Configurable Thresholds			Y	es	
Charge Battery from AC (if allowed)			Y	es	
Typical Nighttime Power Consumption			<	2.5	
OUTPUT – AC BACKUP ⁽³⁾					
Rated AC Power in Backup Operation ⁽⁴⁾	7600	5760	6000	7600 11400*	
AC L-L Output Voltage Range in Backup			211 -	- 264	
AC L-N Output Voltage Range in Backup			105 -	- 132	
AC Frequency Range in Backup (min - nom - max)			55 – 6	60 - 65	
Maximum Continuous Output Current in Backup	32	24	25	32	
Operation	52	24	25	47.5	
GFDI				1	
THD			<	5	
OUTPUT – SOLAREDGE HOME EV CHA	RGER AC				
Rated AC Power			96	600	
AC Output Voltage Range			211 -	- 264	
On-Grid AC Frequency Range (min - nom - max)			59.3 - 6	60 - 60.5	
Maximum Continuous Output Current @240V (grid, PV and battery)			2	10	
INPUT – DC (PV AND BATTERY)					
Transformer-less, Ungrounded			Y	es	
Max Input Voltage			4	80	
Nom DC Input Voltage			3	80	
Reverse-Polarity Protection			Y	es	
Ground-Fault Isolation Detection			600kΩ S	ensitivity	
INPUT – DC (PV)					
Maximum DC Power @ 240V	7600	11520	12000	15200	
Maximum DC Power @ 208V	6600	10000	10000	-	
Maximum Input Current ⁽⁵⁾ @ 240V	20	16	16.5	20 30	
Maximum Input Current ⁽⁵⁾ @ 208V	9	13.5	13.5	-	
Max. Input Short Circuit Current				15	
Maximum Inverter Efficiency				9.2	
CEC Weighted Efficiency	99				

* Supported with PN SExxxxH-USMNxxxxx

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



TOP TIER SOLAR SOLUTIONS					
1530 CENTER CHARLOT	AR SOLUTIONS PARK DR #2911, TE, NC 28217, O STATES				
REV	SIONS				
DESCRIPTION	DATE REV				
INITIAL DESIGN	01/24/2024				
PROJECT NA	ME & ADDRESS				
ELLIS DAVIS RESIDENCE	18 THUNDER VALLELY CT, LILLINGTON, NC 27546				
ESR SHEET NAME EQUIPMENT SPECIFICATION					
AN	SHEET SIZE ANSI B 11" X 17"				
	NUMBER				

E10000H-US	SE11400H-US	Unit
10000	11400 @ 240V 10000 @ 208V	W
10000	11400 @ 240V 10000 @ 208	W
		Vac
		Vac
42	47.5	Hz
-	48	A
		A
		%
		W
		1
10000 11400*	11400	W
		Vac
		Vac
		Hz
42 47.5	47.5	A
		A
		%
		W
		Vac
		Hz
		Aac
		Vdc
		Vdc
		1
20000	22800	W
B 1	20000	W
30	30	Ado
-	27	Adc
		%
	99 @ 240V 98.5 @ 208V	%

/ 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 – DC (BATTERY)							
Supported Battery Types			SolarEdge Home Ba	ttery, LG RESU Prim	ie		
Number of Batteries per Inverter			SolarEdge Home Ba				
Continuous Power ⁽⁶⁾	7600 @ 240V 3800 @ 208V	5760 @ 240V 5000 @ 208V	6000	11400 11400 @		11400 @ 240V 10000 @ 208V	W
Peak Power ⁽⁶⁾	7600 @ 240V 3800 @ 208V	5760 @ 240V 5000 @ 208V	6000	11400 1140		11400 @ 240V 10000 @ 208V	W
Max Input Current	20			26.5			Adc
2-pole Disconnection			Up to inverter rat	ed 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 Cł	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		Yes					
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, accord	ng to NEC 2014 – 2	023 per article 690.	11 and 690.12		
STANDARD COMPLIANCE							
Safety		UL1741, UL1741 SA,	UL1741 SB, UL1741 P	CS, UL1699B, UL199	98, UL9540, CSA 22.	2	
Grid Connection Standards		IEEE1	547-2018, Rule 21, R	ule 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
		1.00 M 10 M 10 M		30.8 / 14**	41.7 / 18.9**		
Weight with Connection Unit		30.8 / 14			20.3***	44.9 / 20.3***	lb / k
Noise			<	50			dBA
Cooling			Natural C	onvection			
Operating Temperature Range			-40 to +140 /	-40 to +60 ⁽¹⁰⁾			°F/°
Protection Rating			NEM	1A 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 SEXXXH-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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Solar Is Not Always Sunny

enough to buckle a panel frame.

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.

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

XR Rails are the structural backbone preventing



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		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				

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.



Teo	ch	Br	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	01/24/2024			

PROJECT NAME & ADDRESS

ELLIS DAVIS RESIDENCE

3 THUNDER VALLELY CT LILLINGTON, NC 27546 30

DRAWN BY

ESR

SHEET NAME EQUIPMENT SPECIFICATION

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER





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

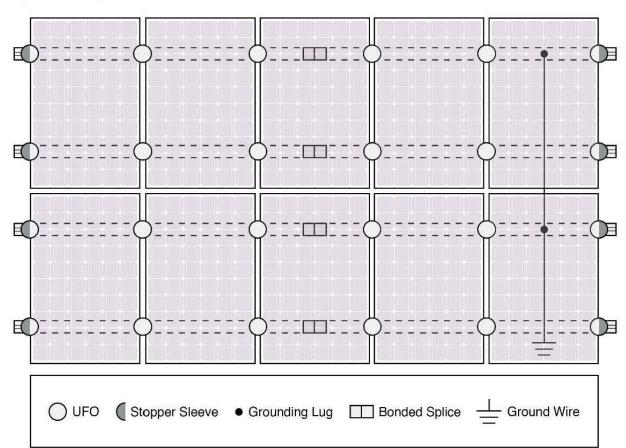
rail. It is installed with the

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

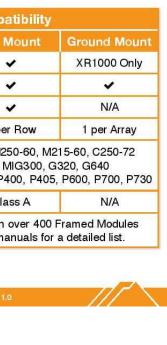
The IronRidge Flush Mount, Tilt Mount, and Ground Mount Systems have been listed to UL 2703 by Intertek Group plc.

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 Compa				
Feature	Flush Mount	Tilt N		
XR Rails	~			
UFO/Stopper	~	,		
Bonded Splice	~			
Grounding Lugs	1 per Row	1 pei		
Microinverters & Power Optimizers	Enphase - M250-72, M2 Darfon - MIG240, M SolarEdge - P300, P320, P4			
Fire Rating	Class A	Cla		
Modules	Tested or Evaluated with Refer to installation ma			





TOP TIER

TOP TIER SOLAR SOLUTIONS

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

REVISIONS			
DESCRIPTION	DATE R		
INITIAL DESIGN	01/24/2024		

PROJECT NAME & ADDRESS

ELLIS DAVIS RESIDENCE 18 THUNDER VALLELY CT LILLINGTON, NC 27546

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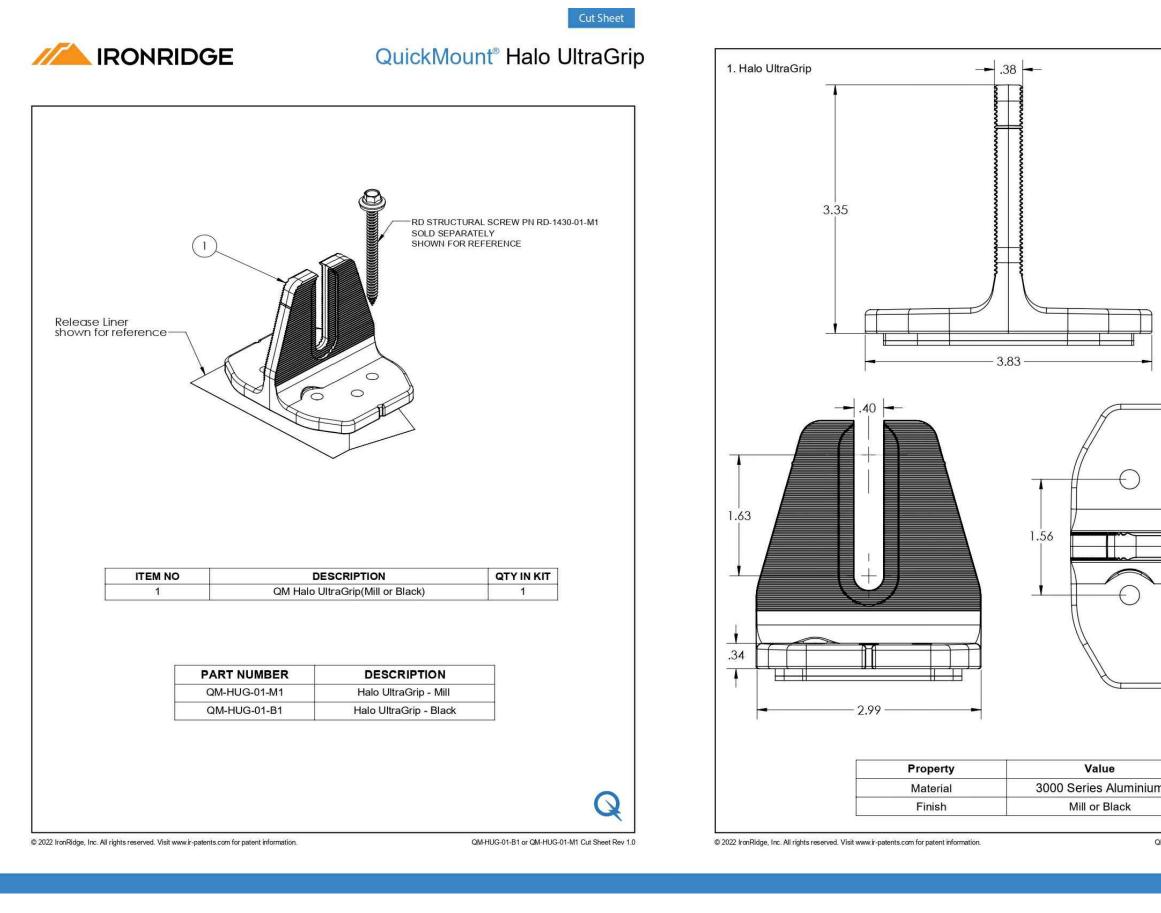
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SHEET NAME EQUIPMENT SPECIFICATION

SHEET SIZE

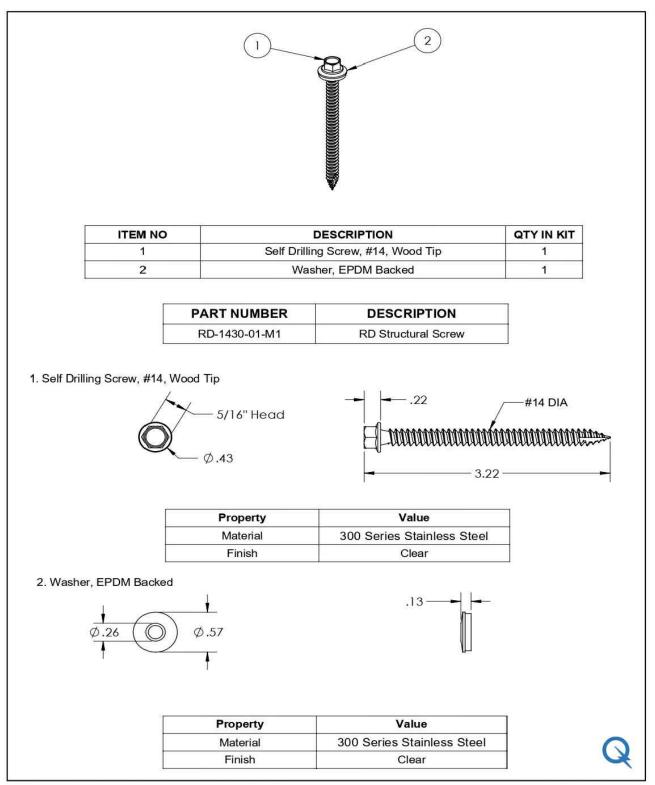
ANSI B 11" X 17"

SHEET NUMBER



Cut Sheet	TOP T SOLAR SOLUT		
	TOP TIER SOLAR SOLUTIONS 1530 CENTER PARK DR #2911, CHARLOTTE, NC 28217,		
	DESCRIPTION	DATE REV	
	INITIAL DESIGN	01/24/2024	
	ELLIS DAVIS RESIDENCE	LILLINGTON, NC 27546	
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n			
2M-HUG-01-B1 or QM-HUG-01-M1 Cut Sheet Rev 1.0			
	SHEET SIZE		
	ANSI E 11" X 17		
	SHEET NUMBER		
	PV-16		

IRONRIDGE QuickMount® RD Structural Screw



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

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ELLIS DAVIS RESIDENCE	18 THUNDER VALLELY LILLINGTON, NC 2754	
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SHEET NAME EQUIPMENT SPECIFICATION		
SHEET SIZE ANSI B 11" X 17"		
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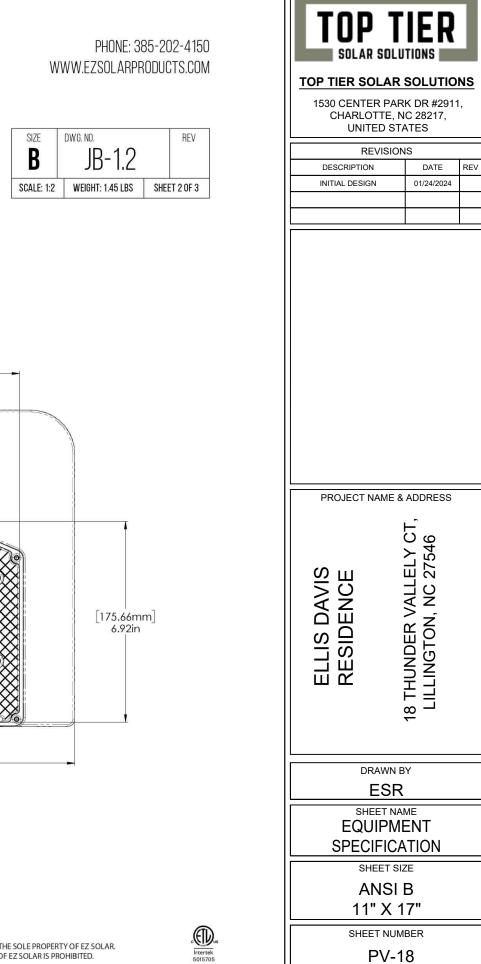


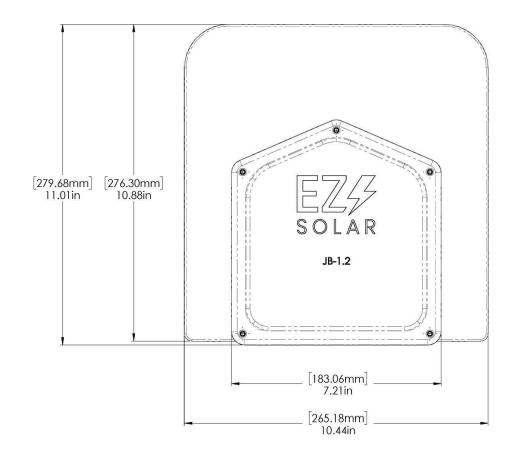
PHONE: 385-202-4150 WWW.EZSOLARPRODUCTS.COM

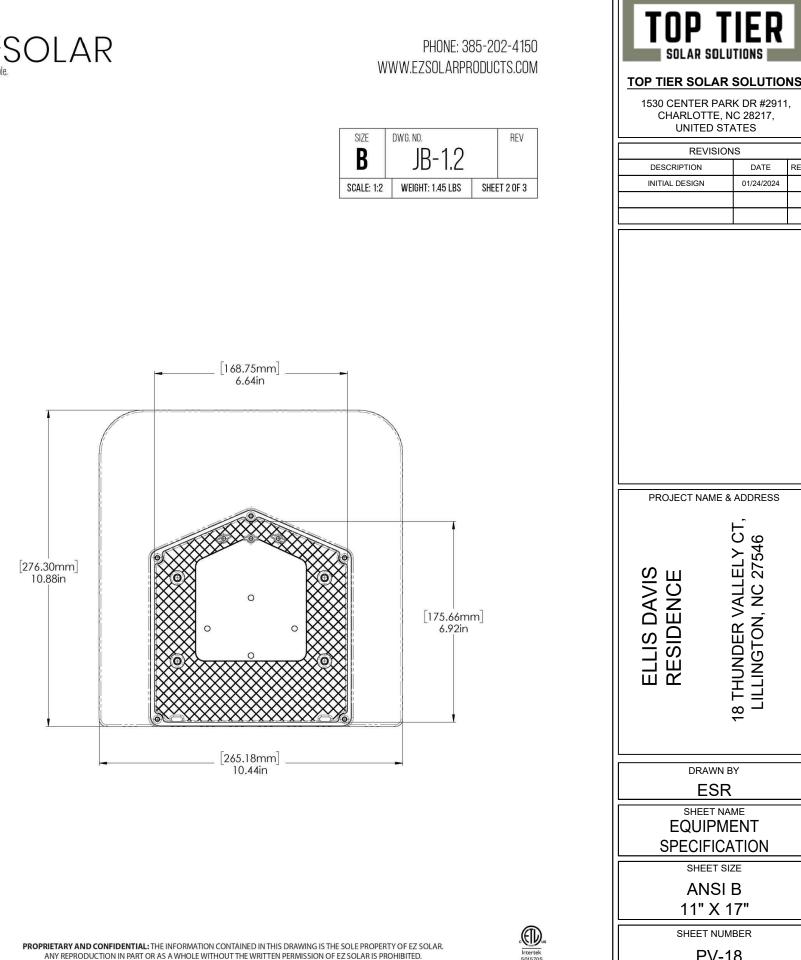


ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	JB-1.2 BODY	POLYCARBONATE WITH UV INHIBITORS	1
2	JB-1.2 LID	POLYCARBONATE WITH UV INHIBITORS	1
3	#10 X 1-1/4" PHILLIPS PAN HEAD SCREW		6
4	#8 X 3/4" PHILLIPS PAN HEAD SCREW		6

size B	dwg. no.	8-1.2		REV
SCALE: 1:2			T 1 OF 3	
TORQUE SPEC	FICATION: 15-20 L		.BS	
CERTIFIC	ation:	UL 1741, NEMA 3R CSA C22.2 NO. 290		
WEIG	HT:	1.45 LBS		









_ [72.53mm] _ 2.86in