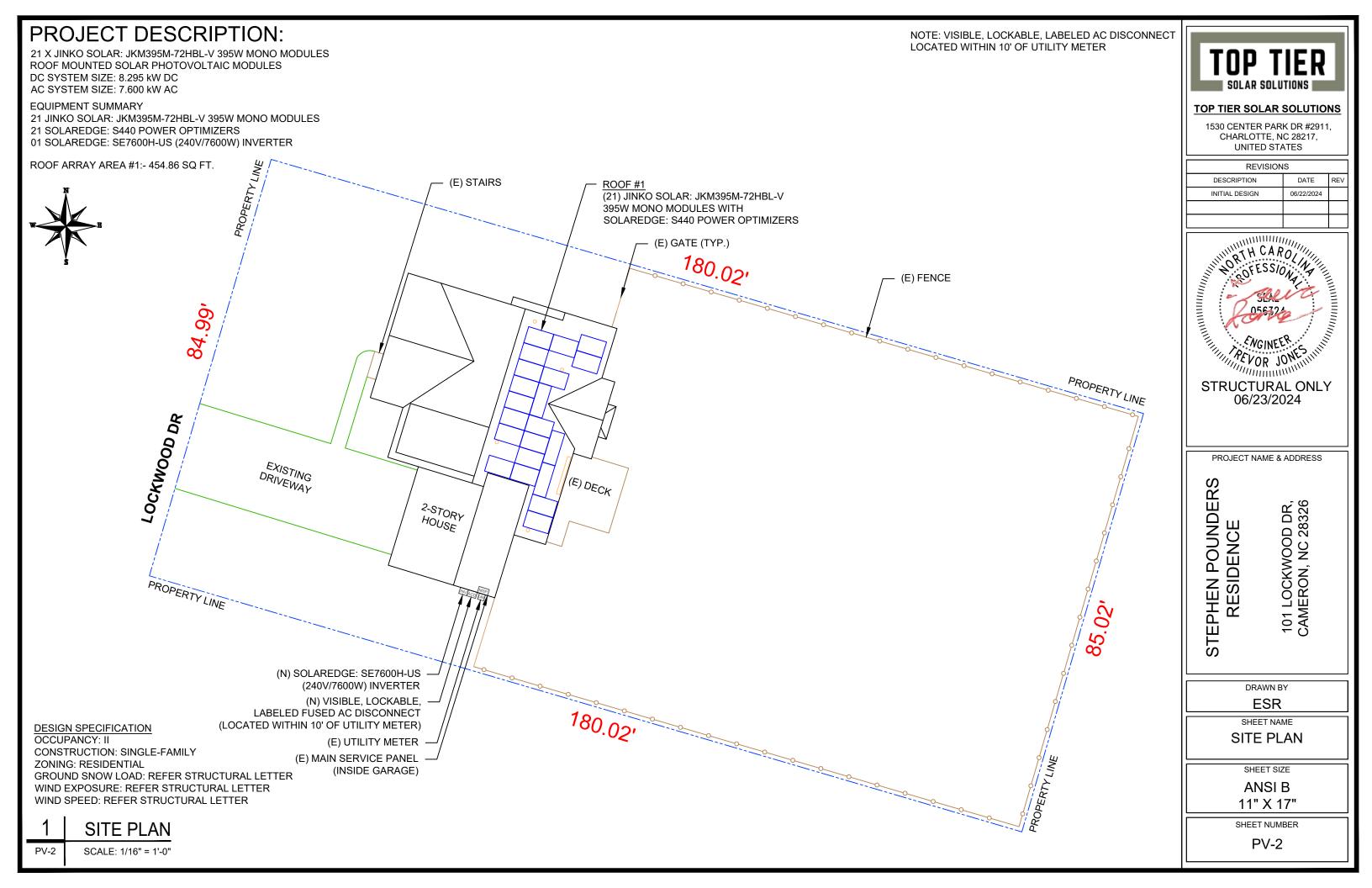
PHOTOVOLTAIC ROOF MOUNT SYSTEM

21 MODULES-ROOF MOUNTED - 8.295 kW DC, 7.600 kW AC

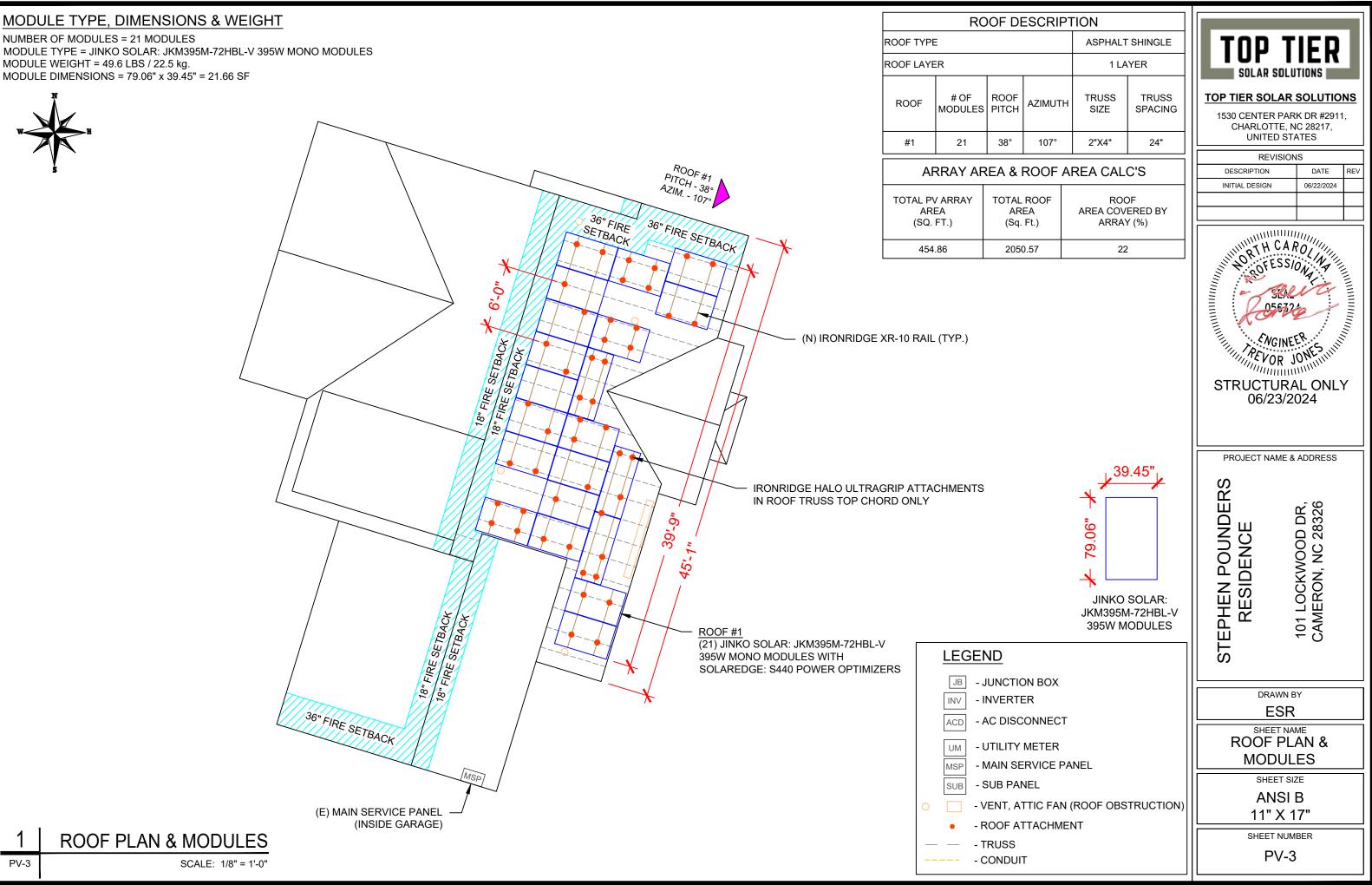
101 LOCKWOOD DR, CAMERON, NC 28326

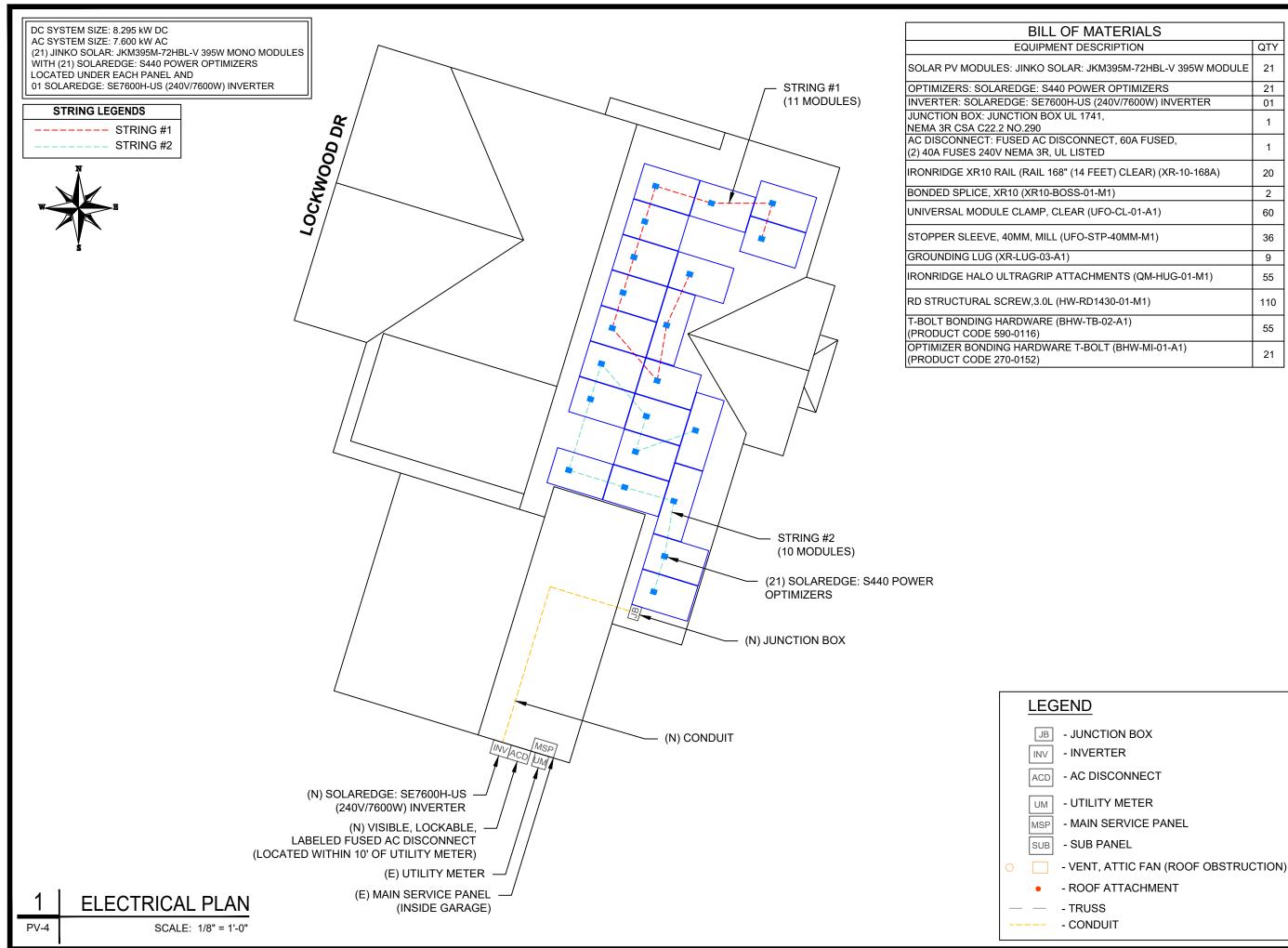
PROJECT DATA	GENERAL NOTES	VICIN
PROJECT 101 LOCKWOOD DR, ADDRESS CAMERON, NC 28326 OWNER: STEPHEN POUNDERS DESIGNER: ESR SCOPE: 8.295 kW DC ROOF MOUNT SOLAR PV SYSTEM WITH 21 JINKO SOLAR: JKM395M-72HBL-V 395W PV MODULES WITH 21 SOLAREDGE: S440 POWER OPTIMIZERS AND 01 SOLAREDGE: SE7600H-US (240V/7600W) INVERTER	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	hage 101 L Camer Un
AUTHORITIES HAVING JURISDICTION: BUILDING: HARNETT COUNTY ZONING: HARNETT COUNTY UTILITY: CENTRAL EMC SHEET INDEX	 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. 8. PHOTOVOLTAIC MODULES ARE TO BE CONSIDERED NON-COMBUSTIBLE. 9. PHOTOVOLTAIC INSTALLATION WILL NOT OBSTRUCT ANY PLUMBING. MECHANICAL, OR BUILDING ROOF VENTS. 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. 11. ALL SINAGE TO BE PLACED IN ACCORDANCE WITH THE LOCAL BUILDING CODE. IF EXPOSED TO SUNLIGHT, IT SHALL BE UV 	HOUS
STILL T INDLXPV-1COVER SHEETPV-2SITE PLANPV-3ROOF PLAN & MODULESPV-4ELECTRICAL PLANPV-5STRUCTURAL DETAILPV-6ELECTRICAL LINE DIAGRAMPV-7WIRING CALCULATIONSPV-8LABELSPV-9+EQUIPMENT SPECIFICATIONS	 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 R
<u>SIGNATURE</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 CAROLINA 2018 NORTH CAROLINA 2018 NORTH CAROLINA 2017 NATIONAL ELECTH





NUMBER OF MODULES = 21 MODULES MODULE WEIGHT = 49.6 LBS / 22.5 kg. MODULE DIMENSIONS = 79.06" x 39.45" = 21.66 SF





TERIALS	
RIPTION	QTY
M395M-72HBL-V 395W MODULE	21
ROPTIMIZERS	21
40V/7600W) INVERTER	01
,	1
CT, 60A FUSED,)	1
ET) CLEAR) (XR-10-168A)	20
M1)	2
FO-CL-01-A1)	60
P-40MM-M1)	36
	9
IENTS (QM-HUG-01-M1)	55
430-01-M1)	110
02-A1)	55
T (BHW-MI-01-A1)	21

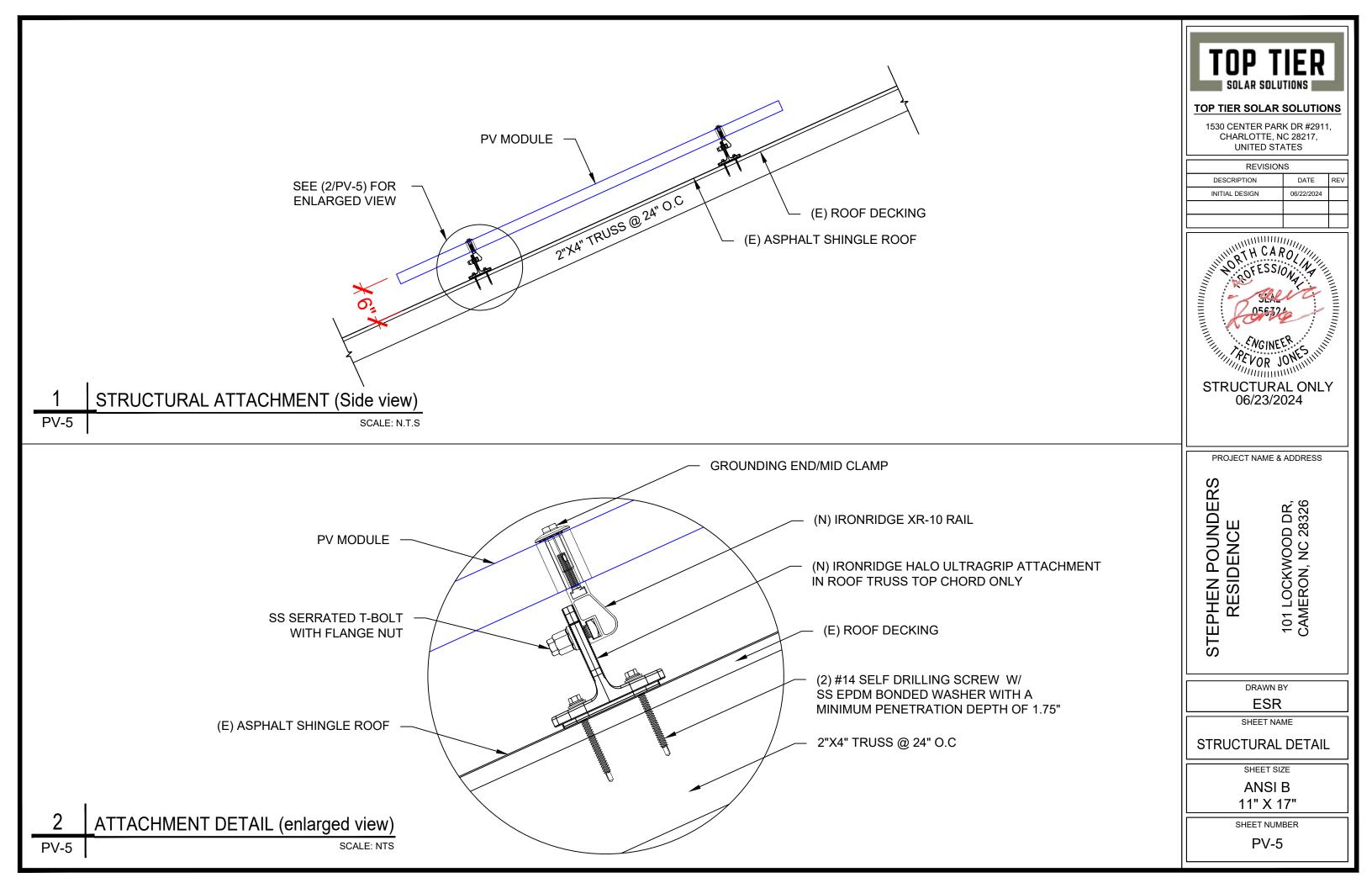


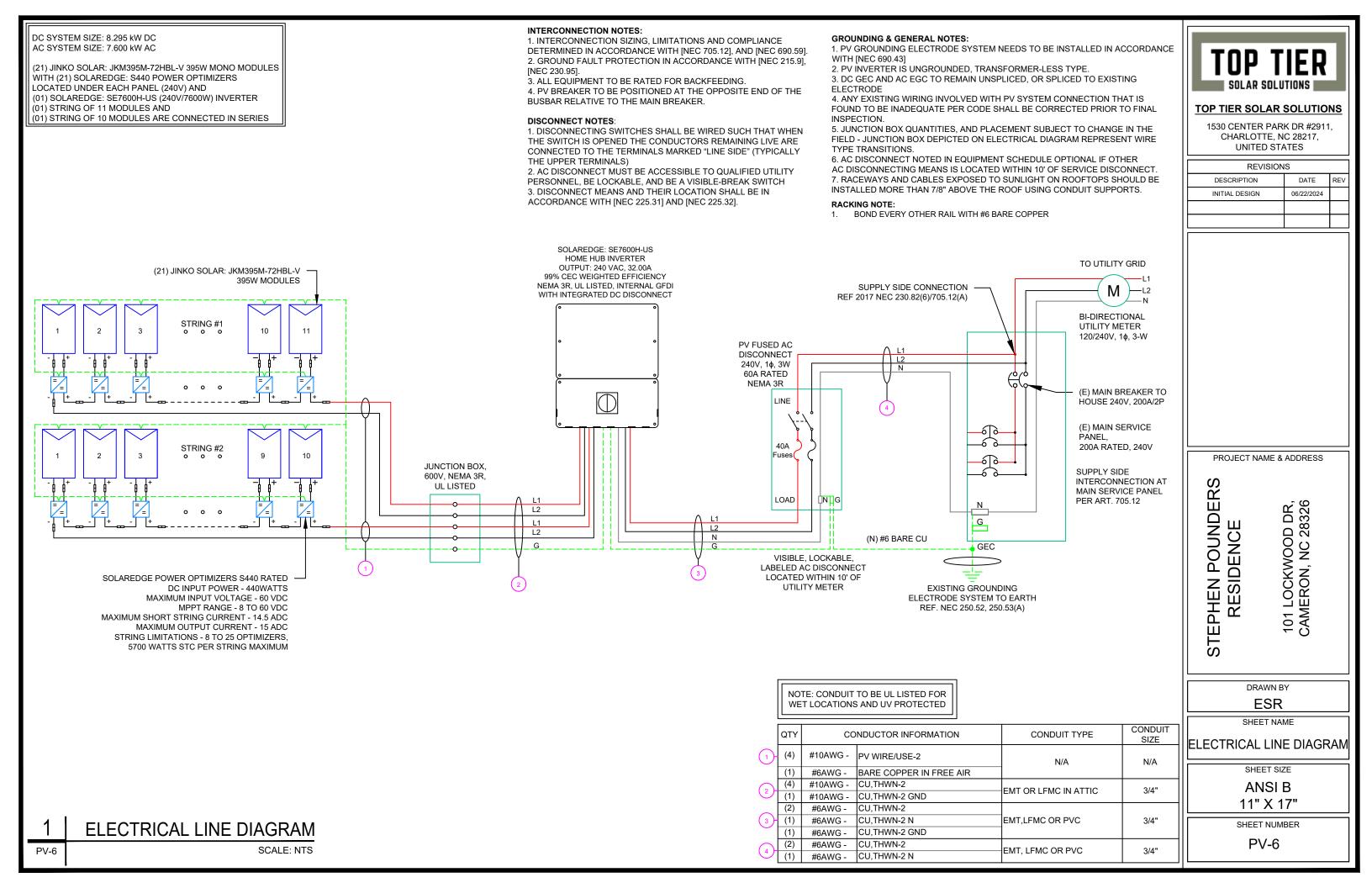
TOP TIER SOLAR SOLUTIONS

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

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SHEET NUMBER





SOLA	R MODULE SPECIFICATIONS		INVERTE	R SPECIFICATIONS		AMBIENT TEMPERATURE SPECS			
		MANUFACTURER / MODEL #		SOLAREDGE: SE7600H-US (240V/7600W) INVERTER		AMBIENT TEMP (HIGH TEMP 2%)	38°		
MANUFACTURER / MODEL	# JINKO SOLAR: JKM395M-72HBL-V 395W MODULE					RECORD LOW TEMPERATURE	-11°		
		NOMINAL AC POWER NOMINAL OUTPUT VOLTAGE		7.600 kW		MODULE TEMPERATURE COEFFICIENT OF Voc	-0.29%/°C		
				240 VAC					
VMP	39.90V	NOMINAL OUTPUT CURRENT		32.00A		7			
IMP	9.90A		OOTALEITT	02.007	_				
VOC	48.80V	PERCENT OF	NUMBI	ER OF CURRENT					
ISC	10.54A	VALUES	CARRYING	CONDUCTORS IN EMT	1				
TEMP, COEFF, VOC	-0.29%/°C	.80		4-6					
MODULE DIMENSION	79.06"L x 39.45"W x 1.57"D (In Inch)	.70		7-9					
	19.00 L X 39.45 W X 1.57 D (III IIICII)	.50		10-20]				

	DC FEEDER CALCULATIONS																	
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)		AMPACITY CHECK #2	FEEDER LENGTH (FEET)	CONDUC RESISTA (OHM/H
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	1.24
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	1.24
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	40	1.24

String 1 Voltage

String 2 Voltage

	AC FEEDER CALCULATIONS																		
CIRCUIT ORIGIN	CIRCUIT DESTINATION	VOLTAGE (V)	FULL LOAD AMPS "FLA" (A)	FLA*1.25 (A)	OCPD SIZE (A)	NELITRAL SIZE	GROUND SIZE	CONDUCTOR SIZE	75°C AMPACITY (A)	AMPACITY CHECK #1	AMBIENT TEMP. (°C)	TOTAL CC CONDUCTORS IN RACEWAY			DERATION FACTOR FOR CONDUCTORS PER RACEWAY NEC 310.15(B)(3)(a)		AMPACITY CHECK #2	FEEDER LENGTH (FEET)	•
INVERTER	AC DISCONNECT	240	32	40	40	CU #6 AWG	CU #6 AWG	CU #6 AWG	65	PASS	38	2	75	0.91	1	68.25	PASS	5	
AC DISCONNECT	POI	240	32	40	40	CU #6 AWG	N/A	CU #6 AWG	65	PASS	38	2	75	0.91	1	68.25	PASS	5	

CUMULATIVE \

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.

							J T R SOLU	IER	1	
						TOP TIER S			NS	
					1530 CENTER PARK DR #2911, CHARLOTTE, NC 28217, UNITED STATES					
	1					DESCRIPTIO		DATE	REV	
OUCTOR STANCE M/KFT)		GE DROP LA (%)	CONDUIT SIZE	CONDUIT FILL (%)		INITIAL DESI	GN	06/22/2024		
24 24		.049 .049	N/A N/A	#N/A #N/A						
24	0.	392	3/4" EMT	19.79362						
Drop		441								
Drop	0.	441								
CONDU RESISTA (OHM/	ANCE	VOLTAGE DROP AT FLA (%)	CONDUIT	CONDUIT FILL (%)						
0.49		0.065 0.065	3/4" EMT 3/4" EMT	38.0488 28.5366						
VOLTAGE DI		0.005	3/4 EIVIT	28.5500						
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						11	1" X 1	7"		
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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

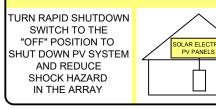
LABEL-4: <u>LABEL LOCATION:</u> MAIN SERVICE PANEL CODE REF: NEC 705.12(C) & NEC 690.59



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	20.00 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

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TOP TIER SOLAR	TOP TIER SOLAR SOLUTIONS									
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DESCRIPTION	DATE	REV								
INITIAL DESIGN	06/22/2024									
PROJECT NAME & SUDENCE SUDENCE SUDENCE BRAWN B	101 LOCKWOOD DR, CAMERON, NC 28326									
ESR										
SHEET NAI	ME									
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ANSI 11" X 1	В									
SHEET NUM										
PV-8										

EAGLE CONTINENTAL

380-400 WATT • MONO PERC HALF-CELL MODULE

Positive power tolerance of 0~+3%

G

DU

- NYSE-listed since 2010, Bloomberg Tier 1 manufacturer
- Top performance in the strictest 3rd party labs
- Automated manufacturing utilizing artificial intelligence
- Vertically integrated, tight controls on quality
- Premium solar module factory in Jacksonville, Florida



KEY FEATURES

Superior Aesthetics

Black backsheet and black frame create ideal look for residential applications.



Diamond Half-Cell Technology

World-record breaking efficient mono PERC half-cells deliver high power in a small footprint.



ASSEMBLED IN THE

Thick and Tough

Fire Type 1 rated module engineered with a thick frame, 3.2mm front side glass, and thick backsheet for added durability.

IS09001:2008 Quality Standards

IEC61215, IEC61730 certified

• IS014001:2004 Environmental Standards

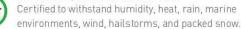


8

Shade Tolerant

Twin array design allows continued performance even with shading by trees or debris.

Protected Against All Environments



Warranty 像

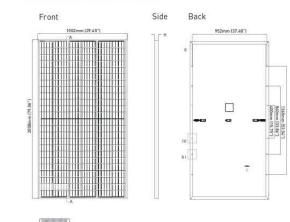
25-year product and 25-year linear power warranty.

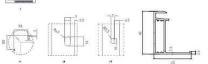
- ISO 45001 2018 Occupational
- Health & Safety Standards UL1703/61730 certified



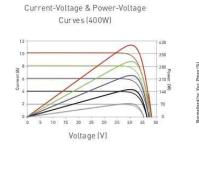


ENGINEERING DRAWINGS





ELECTRICAL PERFORMANCE & TEMPERATURE DEPENDENCE



MECHANICAL CHARACTERISTICS

Cells	Mono PERC
No. of Half Cells	144 (6 x 24)
Dimensions	2008 x 1002 x
Weight	22.5kg (49.6
Front Glass	3.2mm, Anti High Transn
Frame	Anodized Al
Junction Box	IP68 Rated
Output Cables	12 AWG, 140
Connector	Staubli MC4
Fire Type	Type 1
Pressure Rating	5400Pa (Sno
Hailstone Test	50mm Hails

TEMPERATURE CHARACTERISTICS

-0.35%/°C Temperature Coefficients of Pmax Temperature Coefficients of Voc -0.29%/°C 0.048%/°C Temperature Coefficients of Isc Nominal Operating Cell Temperature (NOCT) 45±2°C

MAXIMUM RATINGS

Operating Temperature (°C) Maximum System Voltage Maximum Series Fuse Rating

PACKAGING CONFIGURATION

(Two pallets = One stack) 27pcs/pallet, 54pcs/stack, 594pcs/40'HQ Container

WARRANTY

25-year product and 25-year linear power warranty $1^{\rm st}$ year degradation not to exceed 2.5%, each subsequent year not to exceed 0.6%, minimum power at year 25 is 83.1% or greater.

ELECTRICAL CHARACTERISTICS

Module Type	JK M380 M	-72HBL-V	JKM385M-72HBL-V		JKM390M	-72HBL-V	JKM395N	1-72HBL-V	JKM400M-72HBL-V	
	STC	NOCT	STC	NOCT	SCT	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	380Wp	280Wp	385Wp	283Wp	390Wp	287Wp	395 Wp	291Wp	400Wp	294Wp
Maximum Power Voltage (Vmp)	39.10V	36.5V	39.37V	36.8V	39.64V	37.0V	39.90V	37.4V	40.16V	37.6V
Maximum Power Current (Imp)	9.72A	7.67A	9.78A	7.71A	9.84A	7.75A	9.90A	7.77A	9.96A	7.82A
Open-circuit Voltage (Voc)	48.2V	45.4V	48.4V	45.6V	48.6V	45.8V	48.8V	46.0V	49.1V	46.2V
Short-circuit Current (lsc)	10.30A	8.32A	10.38A	8.38A	10.46A	8.45A	10.54A	8.51A	10.61A	8.57A
Module Efficiency STC (%)	18.8	9%	19.1	13%	19.3	8%	19.	63%	19.	88%

*STC: Irradiance 1000W/m² NOCT: Irradiance 800W/m² *Power measurement tolerance: ±3%

AM = 1.5 AM = 1.5 Cell Temperature 25°C Ambient Temperature 20°C

Length: ± 2mm

Width: ± 2mm Height: ± 1mm

Temperature Dependence

of Isc, Voc, Pmax

Cell Temperature (°C)

Row Pitch: ± 2mm

Wind Speed 1m/s

The company reserves the final right for explanation on any of the information presented hereby. JKM380-400M-72HBL-V-F1-US

BUILDING YOUR TRUST IN SOLAR, WWW, JINKOSOLAR, US

Diamond Cell (158.75 x 158.75mm)

x 40mm (79.06 x 39.45 x 1.57in)

Slbs

i-Reflection Coating nission, Low Iron, Tempered Glass

uminum Alloy

0mm (55.12in)

Series

ow) & 2400Pa (Wind)

stones at 35m/s

-40°C~+85°C 1500VDC (UL and IEC) 20A



TOP TIER SOLAR SOLUTION

TOP TIER SOLAR SOLUTIONS

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

REVISIONS										
DESCRIPTION	DATE	REV								
INITIAL DESIGN	06/22/2024									

PROJECT NAME & ADDRESS

STEPHEN POUNDERS RESIDENCE

101 LOCKWOOD DR, CAMERON, NC 28326

DRAWN BY

ESR

SHEET NAME EQUIPMENT **SPECIFICATION**

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

CERTIFICATE OF COMPLIANCE

Certificate Number Report Reference Date

E362479 E362479-20200410 2023-July-16

JINKO SOLAR CO LTD Issued to: No.1, Yingbin Road, Economic Development Zone Shangrao Jiangxi Sheng 334100 CN

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 evaluated by UL in accordance with the Standard(s) indicated on this Certificate.

UL 61730-1 - Standard for Photovoltaic (PV) Module Safety Standard(s) for Safety: Qualification - Part 1: Requirements for Construction, Edition 2, Issue Date 10/28/2022 and UL 61730-2, Photovoltaic (PV) Module Safety Qualification - Part 2: Requirements for Testing, Edition 2, Revision Date 04/25/2023 and CSA C22.2 No. 61730-1:19 December 2019, Photovoltaic (PV) module safety gualification - Part 1: Requirements for construction and CSA C22.2 No. 61730-2:19 December 2019, Photovoltaic (PV) module safety qualification - Part 2: Requirements for testing.

Additional Information:

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

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance 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

Wrah Jenning Trene Deborah Jennings-Conner, VP Regulatory Services

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, pleas contact a local UL Customer Service Representative at http://ul.com/abointul/locations/

CERTIFICATE OF COMPLI

Certificate Number Report Reference Date

E362479 E362479-20200410 2023-July-16

JKM525N-72HL4-V, JKM530N-72HL4-V, JKM535N-72HL4-V, JKM540N-72HL4-V, JKM545N-72HL4-V, JKM550N-72HL4-V, JKM555N-72HL4-V, JKM560N-72HL4-V, JKM565N-72HL4-V, JKM570N-72HL4-V, JKM575N-72HL4-V.

JKM480N-66HL4-V, JKM485N-66HL4-V, JKM490N-66HL4-V, JKM495N-66HL4-V, JKM500N-66HL4-V, JKM505N-66HL4-V, JKM510N-66HL4-V, JKM515N-66HL4-V, JKM520N-66HL4-V, JKM525N-66HL4-V

JKM435N-60HL4-V, JKM440N-60HL4-V, JKM445N-60HL4-V, JKM450N-60HL4-V, JKM455N-60HL4-V, JKM460N-60HL4-V, JKM465N-60HL4-V, JKM470N-60HL4-V, JKM475N-60HL4-V, JKM480N-60HL4-V.

JKM395N-54HL4-V, JKM400N-54HL4-V, JKM405N-54HL4-V, JKM410N-54HL4-V, JKM415N-54HL4-V, JKM420N-54HL4-V, JKM425N-54HL4-V, JKM430N-54HL4-V.

JKM565M-78HL4-V, JKM570M-78HL4-V, JKM575M-78HL4-V, JKM580M-78HL4-V, JKM585M-78HL4-V, JKM590M-78HL4-V, JKM595M-78HL4-V, JKM600M-78HL4-V, JKM605M-78HL4-V

JKM370M-72HBL-V, JKM375M-72HBL-V, JKM380M-72HBL-V, JKM385M-72HBL-V, JKM390M-72HBL-V, JKM395M-72HBL-V, JKM400M-72HBL-V, JKM405M-72HBL-V, JKM410M-72HBL-V, JKM415M-72HBL-V. JKM420M-72HBL-V.

JKM330M-60HBL-V, JKM335M-60HBL-V, JKM340M-60HBL-V, JKM345M-60HBL-V, JKM350M-60HBL-V.

JKM515N-72HL4-B-V, JKM520N-72HL4-B-V, JKM525N-72HL4-B-V, JKM530N-72HL4-B-V, JKM535N-72HL4-B-V, JKM540N-72HL4-B-V, JKM545N-72HL4-B-V, JKM550N-72HL4-B-V, JKM555N-72HL4-B-V, JKM560N-72HL4-B-V, JKM565N-72HL4-B-V, JKM570N-72HL4-B-V.

JKM475N-66HL4-B-V, JKM480N-66HL4-B-V, JKM485N-66HL4-B-V, JKM490N-66HL4-B-V, JKM495N-66HL4-B-V, JKM500N-66HL4-B-V, JKM505N-66HL4-B-V, JKM510N-66HL4-B-V, JKM515N-66HL4-B-V, JKM520N-66HL4-B-V.

JKM430N-60HL4-B-V, JKM435N-60HL4-B-V, JKM440N-60HL4-B-V, JKM445N-60HL4-B-V, JKM450N-60HL4-B-V, JKM455N-60HL4-B-V, JKM460N-60HL4-B-V, JKM465N-60HL4-B-V, JKM470N-60HL4-B-V.

JKM385N-54HL4-B-V, JKM390N-54HL4-B-V, JKM395N-54HL4-B-V, JKM400N-54HL4-B-V, JKM405N-54HL4-B-V, JKM410N-54HL4-B-V, JKM415N-54HL4-B-V, JKM420N-54HL4-B-V, JKM425N-54HL4-B-V, JKM430N-54HL4-B-V, JKM435N-54HL4-B-V, JKM440N-54HL4-B-V.

JKM585N-78HL4R-V, JKM590N-78HL4R-V, JKM595N-78HL4R-V, JKM600N-78HL4R-V, JKM605N-78HL4R-V. JKM610N-78HL4R-V. JKM615N-78HL4R-V. JKM620N-78HL4R-V. JKM625N-78HL4R-V. JKM630N-78HL4R-V, JKM635N-78HL4R-V, JKM640N-78HL4R-V, JKM645N-78HL4R-V, JKM650N-78HL4R-V

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TOP TIER SOLAR SOLUTIONS

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

REVISIONS				
DESCRIPTION	DATE	REV		
INITIAL DESIGN	06/22/2024			

PROJECT NAME & ADDRESS

ERS POUND RESIDENCE EPHEN

SI

101 LOCKWOOD DR, CAMERON, NC 28326

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

- 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	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	Vdc	
Maximum Short Circuit Current (Isc) of Connected PV Module	14.5		15		Adc	
Maximum Efficiency		99	9.5		%	
Weighted Efficiency	98.6					
Overvoltage Category	1					
OUTPUT DURING OPERTION						
Maximum Output Current	15					
Maximum Output Voltage	60)	8	30	Vdo	
OUTPUT DURING STANDBY (POWER OPTIMIZER	DISCONNECTED	FROM INVERTER	OR INVERTER OF	F)		
Safety Output Voltage per Power Optimizer			0.1	11.2	Vdd	
STANDARD COMPLIANCE ⁽²⁾						
EMC	FCC Part 15 Class B, IEC61000-6-2, IEC61000-6-3, CISPR11, EN-55011					
Safety		IEC62109-1 (class	ill safety), UL1741			
Material		UL94 V-0, 1	JV Resistant			
RoHS		Ŷ	es			
Fire Safety		VDE-AR-E 210	00-712:2018-12			
INSTALLATION SPECIFICATIONS						
Maximum Allowed System Voltage		10	00		Vdo	
Dimensions (W x L x H)	129 x 15	5 x 30	129 x 1	65 x 45	mm	
Weight	72	0	7	90	gr	
Input Connector		M	(³)			
Input Wire Length		C	0,1		m	
Output Connector		M	C4			
Output Wire Length		(+) 2.3,	(-) 0.10		m	
Operating Temperature Range ⁽⁴⁾		-40 t	o +85		*C	
Protection Rating		P	68			
Relative Humidity		0-	100		%	

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

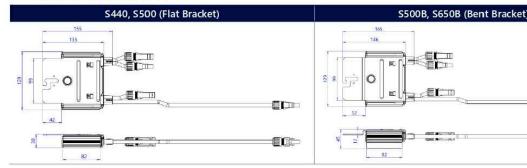
(3) For other connector types please contact SolarEdge.

(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 G r id	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 [®]	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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0.5	VUL
12.5 - 85	Vdc
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	%
	%
	1
	Ado
80	Vdc
OFF)	
	Vdc
R11, EN-55011	
	Vdc
9 x 165 x 45	mm
790	gr
	m
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TOP TIER SOLAR SOLUTIONS

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

REVISION	IS	
DESCRIPTION	DATE	REV
INITIAL DESIGN	06/22/2024	
PROJECT NAME &		
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TEPHEN POUNDERS RESIDENCE		
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SHEET SIZE

ANSI B

11" X 17"

SHEET NUMBER PV-11

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 1 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
- Embedded revenue grade production data, 1 ANSI C12.20 Class 0.5

/ SolarEdge Home Hub Inverter For North America

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

Applicable to inverters with part number	SEXXXXH-USMNBBXXX / SEXXXXH-USSNBBXXX							
	SE3800H-US	SE5700H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	Uni	
OUTPUT – AC ON GRID								
Rated AC Power	3800 @ 240V 3300 @ 208V	5760 @ 240V 5000 @ 208V	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	W	
Maximum AC Power Output	3800 @ 240V 3300 @ 208V	5760 @ 240V 5000 @ 208V	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208	V	
AC Output Voltage (Nominal)			208	/ 240			Va	
AC Output Voltage (Range)			183 -	- 264			Va	
AC Frequency Range (min - nom - max)			59.3 - 6	0 – 60.5 ⁽²⁾			H	
Maximum Continuous Output Current @ 240V	16	24	25	32	42	47.5	1	
Maximum Continuous Output Current @ 208V	16	24	24	-	-	48	1	
GFDI Threshold				1			1	
Total Harmonic Distortion (THD)			<	3			9	
Power Factor				-0.85 to 0.85				
Utility Monitoring, Islanding Protection, Country Configurable Thresholds		Yes						
Charge Battery from AC (if allowed)		Yes						
Typical Nighttime Power Consumption		< 2.5						
OUTPUT – AC BACKUP ⁽³⁾	1			L.J			V	
	1		1	7600	10000		T	
Rated AC Power in Backup Operation ⁽⁴⁾	7600	5760	6000	11400*	11400*	11400	V	
AC L-L Output Voltage Range in Backup			211 -	- 264	a construction		V	
AC L-N Output Voltage Range in Backup	105 - 132						V	
AC Frequency Range in Backup (min - nom - max)	55 - 60 - 65							
Maximum Continuous Output Current in Backup				32	42			
Operation	32	24	25	47.5	47.5	47.5		
GFDI				1	11.5		,	
THD				5			9	
OUTPUT - SOLAREDGE HOME EV CHA	RGFR AC			-				
Rated AC Power			96	600				
AC Output Voltage Range			1997.1	- 264			V	
On-Grid AC Frequency Range (min - nom - max)				60 - 60.5			- F	
Maximum Continuous Output Current @240V (grid, PV and battery)				10 - 00.5			A	
INPUT – DC (PV AND BATTERY)	1						-	
Transformer-less, Ungrounded			v	es			T	
Max Input Voltage				80			V	
Nom DC Input Voltage				80			V	
Reverse-Polarity Protection				es				
Ground-Fault Isolation Detection			600kΩ S					
INPUT – DC (PV)			600KG2 3	ensiuvity				
Maximum DC Power @ 240V	7600	11520	12000	15200	20000	22800	1	
Maximum DC Power @ 208V	6600	10000	10000	-	-	20000	N	
Maximum Input Current ⁽⁵⁾ @ 240V	20	16	16.5	20	- 30	30	A	
Maximum Input Current ⁽⁵⁾ @ 208V	9	13.5	13.5	-	-	27	A	
Max. Input Short Circuit Current			4	15				
Maximum Inverter Efficiency			99	9.2			9	
CEC Weighted Efficiency	99 @ 240V					99 @ 240V 98.5 @ 208V	9	
	Yes							

(1) These specifications apply to inverters with part numbers SExxxxH-USMNxxxxx or SExxxxH-USSNxxxxxx and connection unit model number DCD-1PH-US-PxH-F-x. (2) For other regional settings please contact SolarEdge support.

(3) Not designed for standalone applications and requires AC for commissioning. Backup functionality is only supported for 240V grid. (4) Rated AC power in Backup Operation is valid for installations with multiple inverters. For a single backup inverter operation, rated AC power in Backup is 90% of the value stated.

(5) A higher current source may be used; the inverter will limit its input current to the values stated



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TOP TIER SOLAR SOLUTIONS

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

REVISION	IS	
DESCRIPTION	DATE	REV
INITIAL DESIGN	06/22/2024	
PROJECT NAME &	ADDRESS	
STEPHEN POUNDERS RESIDENCE	101 LOCKWOOD DR, CAMERON, NC 28326	
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SHEET NUM	BER	

/ 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	BBXXX			
	SE3800H-US	SE5700H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	Units	
OUTPUT – DC (BATTERY)								
Supported Battery Types			olarEdge Home Ba	attery, LG RESU Prim	ie			
Number of Batteries per Inverter		Up to 3 S	SolarEdge Home Ba	attery, up to 2 LG RE	SU Prime			
Continuous Power ⁽⁶⁾	7600 @ 240V 3800 @ 208V	5760 @ 240V 5000 @ 208V	6000	11400		11400 @ 240V 10000 @ 208V	W	
Peak Power ⁽⁶⁾	7600 @ 240V 3800 @ 208V	5760 @ 240V 5000 @ 208V	6000	11.	400	11400 @ 240V 10000 @ 208V	W	
Max Input Current	20		·	26.5		·	Adc	
2-pole Disconnection			Up to inverter ra	ted backup power				
SMART ENERGY CAPABILITIES								
Consumption Metering			Buil	t-in ⁽⁷⁾				
Backup & Battery Storage	Wit	With Backup Interface (purchased separately) for service up to 200A; up to 3 inverters						
EV Charging		Direc	t connection to Sola	arEdge Home EV Cl	narger			
ADDITIONAL FEATURES								
Supported Communication Interfaces		RS485, Ethe	rnet, Cellular ^(8, 9) , W	′i-Fi ⁽⁹⁾ , SolarEdge Ho	ome Network			
Revenue Grade Metering, ANSI C12.20		Built-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, accordi	ng to NEC 2014 – 2	023 per article 690.	11 and 690.12			
STANDARD COMPLIANCE								
Safety	L	JL1741, UL1741 SA, I	JL1741 SB, UL1741 P	CS, UL1699B, UL199	8, UL9540, CSA 22.	2		
Grid Connection Standards		IEEE1	547-2018, Rule 21, F	Rule 14H, CSA C22.3	No. 9			
Emissions			FCC part	15 class B				
INSTALLATION SPECIFICATIONS								
AC Output and EV AC Output Conduit Size / AWG Range			1" maximun	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 370	0 x 174	17.7 x 14.6 x 6.8 / 450 x 370 x 174** 21.06 x 14.6 x 8.2 /	21.06 x 14.6 x 7.3 / 535 x 370 x 185** 535 x 370 x 208***	21.06 x 14.6 x 8.2 / 535 x 370 x 208***	in / mm	
Weight with Connection Unit		30.8 / 14		30.8 / 14** 44.9 /	41.7 / 18.9** 20.3***	44.9 / 20.3***	lb / kg	
Noise			<	50			dBA	
Cooling			Natural C	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.

Supported with PN SEXXXH-USSNBBXXS of SEXXXH-USSNBBXXS.
 (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-USXNBLXX 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 Temperature Derating Technical Note for North America.

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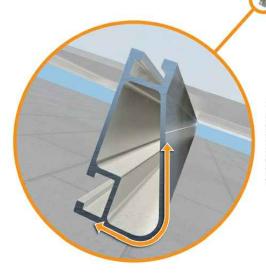
Tech Brief

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



IronRidge® offers a range of tilt leg options for flat roof mounting applications.

Corrosion-Resistant Materials

All XR Rails® are made of 6000-series aluminum alloy, then protected with an anodized finish. Anodizing prevents surface and structural corrosion, while also providing a more attractive appearance.



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.



- · Clear & black anodized finish
- Internal splices available

Rail Selection

· Internal splices available

The table below was prepared in compliance with applicable engineering codes and standards.* Values are based on the following criteria: ASCE 7-16, Gable Roof Flush Mount, Roof Zones 1 & 2e, Exposure B, Roof Slope of 8 to 20 degrees and Mean Building Height of 30 ft. Visit IronRidge.com for detailed certification letters.

Lo	ad			Rail	Span
Snow (PSF)	Wind (MPH)	4'	5' 4"	6'	8'
	90				
	120				
None	140	XR10		XR100	
	160				
	90				
00	120				
20	140				
	160				
	90				
30	160				
10	90				
40	160				
80	160				
120	160				



XR1000

XR1000 is a heavyweight among solar mounting rails. It's built to handle extreme climates and spans up to 12 feet for commercial applications.

• 12' spanning capability · Extreme load capability · Clear anodized finish Internal splices available

10'	12'
XR1000	
ertification letters for ac	tual design guidance.
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TOP TIER SOLAR SOLUTIONS

TOP TIER SOLAR SOLUTIONS

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

REVISIONS				
DESCRIPTION	DATE	REV		
INITIAL DESIGN	06/22/2024			

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STEPHEN POUNDERS RESIDENCE

101 LOCKWOOD DR, CAMERON, NC 28326

DRAWN BY

ESR

SHEET NAME EQUIPMENT SPECIFICATION

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER





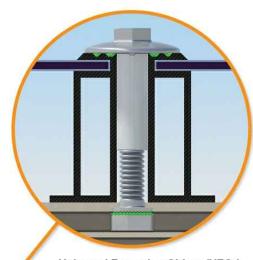
UFO[®] Family of Components

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.

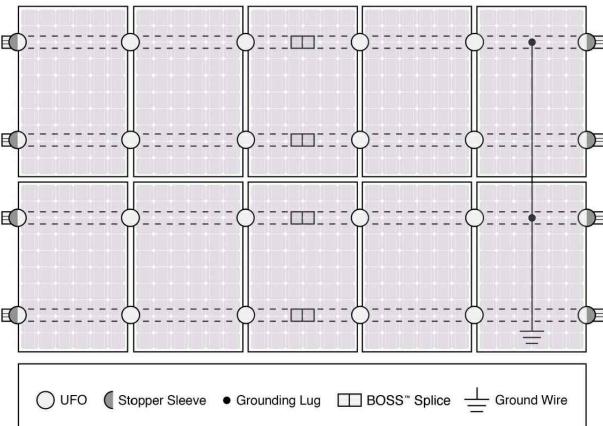
UFO[®] hardware forms secure electrical bonds with both the module and the rail, resulting in many parallel grounding paths throughout the system. This leads to safer and more reliable installations.

Only for installation and use with IronRidge products in accord with written instructions. See IronRidge.com/UFO



system.

Universal Fastening Object (UFO®) **Stopper Sleeve** The UFO® securely bonds solar modules to XR Rails[®]. It comes assembled and lubricated, and The Stopper Sleeve snaps can fit a wide range of module heights. onto the UFO®, converting it into a bonded end clamp. BOSS[®] Splice Bonded Structural Splice connects rails with built-in bonding teeth. No tools or hardware needed Grounding Lug **Bonded Attachments** A single Grounding Lug connects an entire row The bonding bolt attaches of PV modules to the and bonds the L-foot® to the grounding conductor. rail. It is installed with the same socket as the rest of the System Diagram



S 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

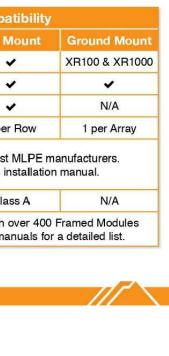
The IronRidge® Flush Mount®, Tilt Mount®, and Ground Mount Systems have been listed to UL 2703 by Intertek Group plc.

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 N	
XR Rails®	~		
UFO [®] /Stopper	~		
BOSS [®] Splice	~		
Grounding Lugs	1 per Row	1 per	
Microinverters & Power Optimizers	Compatible with most Refer to system i		
Fire Rating	Class A	Cla	
Modules	Tested or Evaluated with Refer to installation ma		





TOP TIER SOLAR SOLUTION

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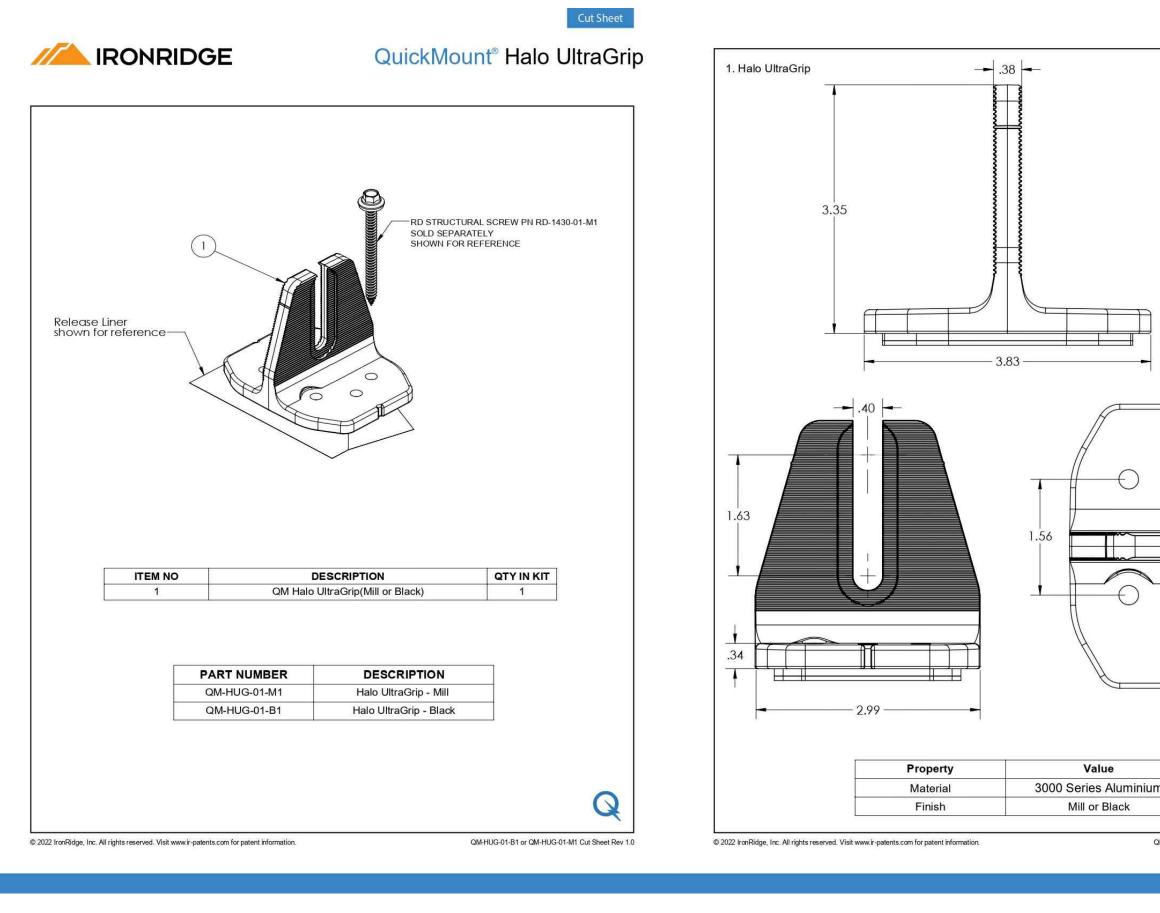
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SHEET NAME EQUIPMENT **SPECIFICATION**

SHEET SIZE

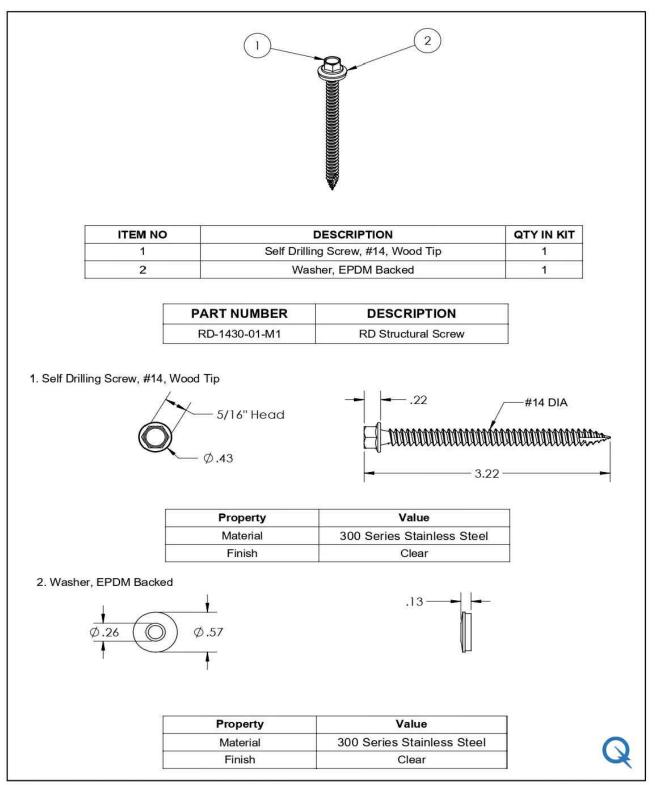
ANSI B 11" X 17"

SHEET NUMBER



Cut Sheet	TOP T SOLAR SOLU	TIONS
	TOP TIER SOLAR SOLUTIONS 1530 CENTER PARK DR #2911, CHARLOTTE, NC 28217, UNITED STATES	
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	DESCRIPTION	DATE REV
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2M-HUG-01-B1 or QM-HUG-01-M1 Cut Sheet Rev 1.0	SHEET NAI EQUIPMI SPECIFICA	ENT
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	SHEET NUM	BER
	PV-1	6

IRONRIDGE QuickMount® RD Structural Screw



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

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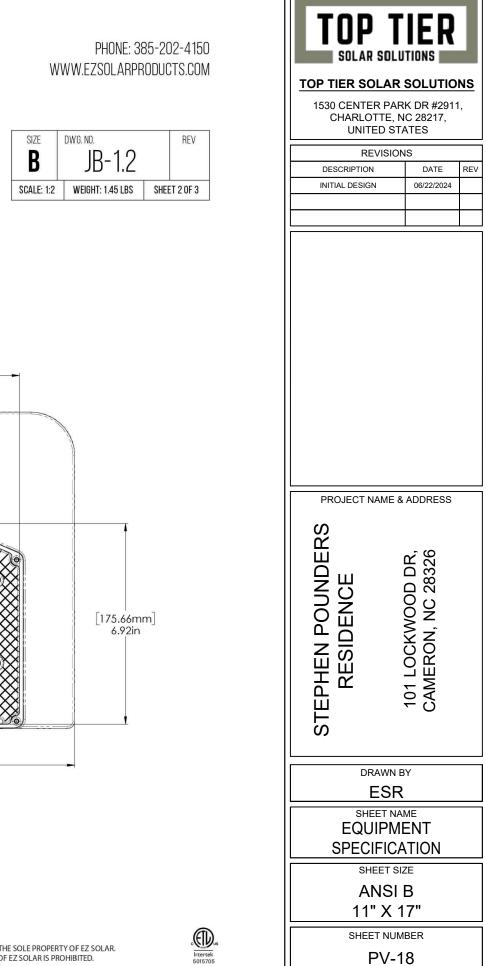


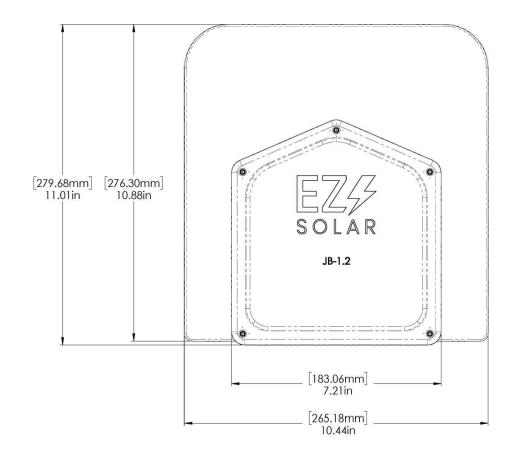
PHONE: 385-202-4150 WWW.EZSOLARPRODUCTS.COM

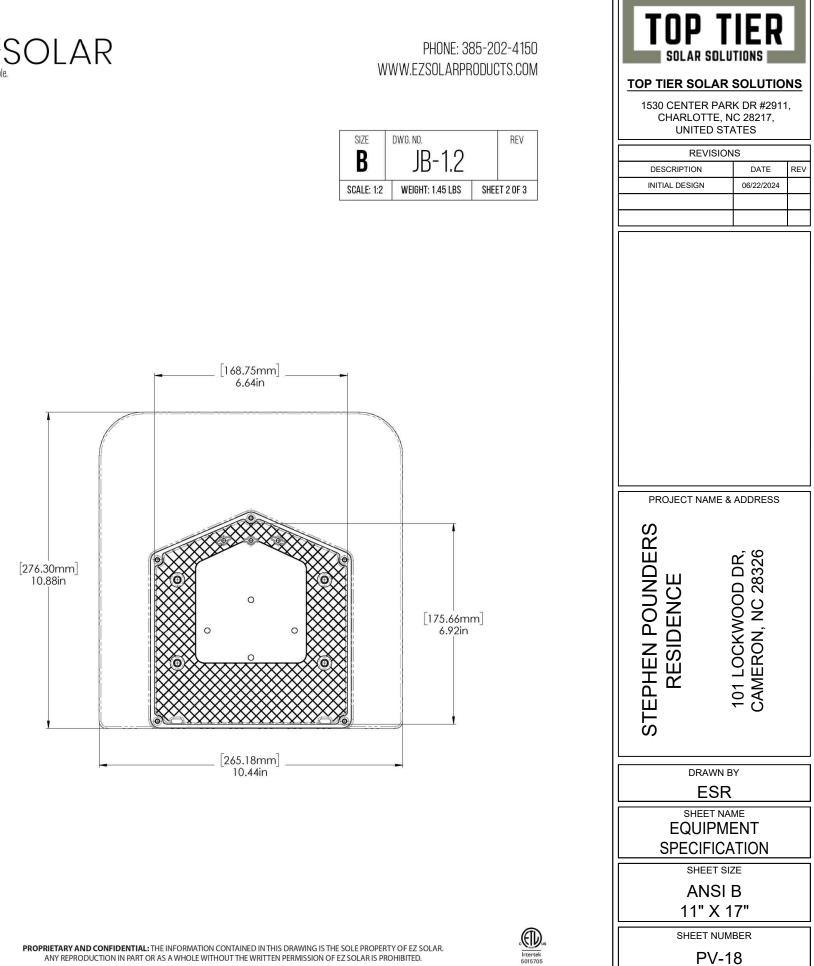


ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	JB-1.2 BODY	POLYCARBONATE WITH UV INHIBITORS	1
2	JB-1.2 LID	POLYCARBONATE WITH UV INHIBITORS	1
3	#10 X 1-1/4" PHILLIPS PAN HEAD SCREW		6
4	#8 X 3/4" PHILLIPS PAN HEAD SCREW		6

size B	dwg. no.	8-1.2		REV
SCALE: 1:2		: 1.45 LBS	SHEE	T 1 OF 3
TORQUE SPEC	CIFICATION:	15	5-20 L	.BS
CERTIFIC	CERTIFICATION:		UL 1741, NEMA 3R CSA C22.2 NO. 290	
WEIG	HT:	1.45 LBS		S









_ [72.53mm] _ 2.86in