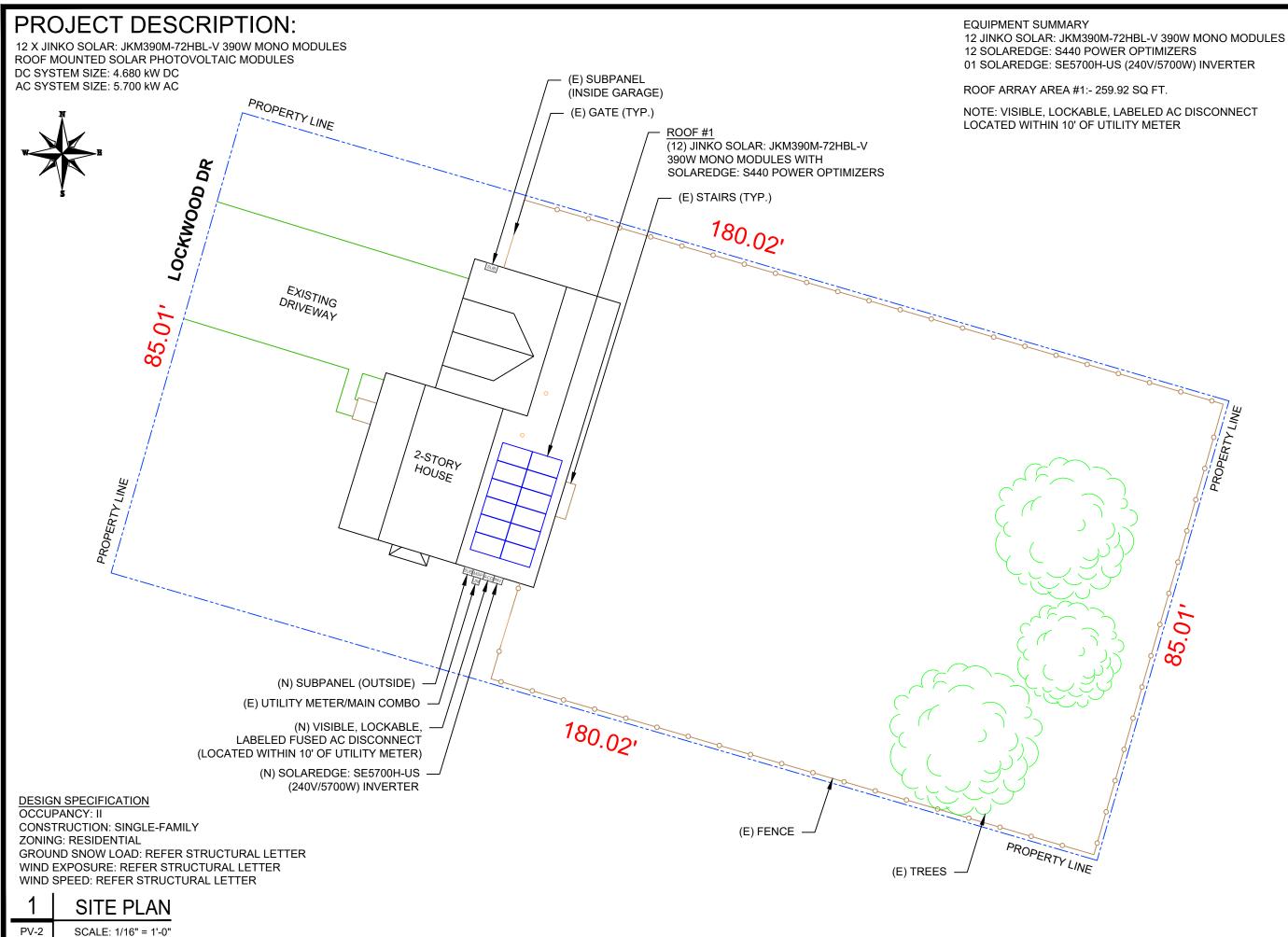
PHOTOVOLTAIC ROOF MOUNT SYSTEM

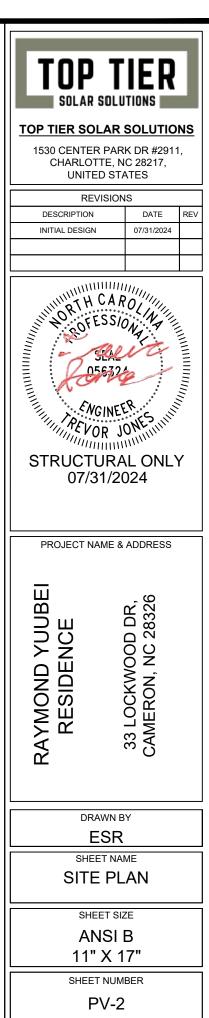
12 MODULES-ROOF MOUNTED - 4.680 kW DC, 5.700 kW AC

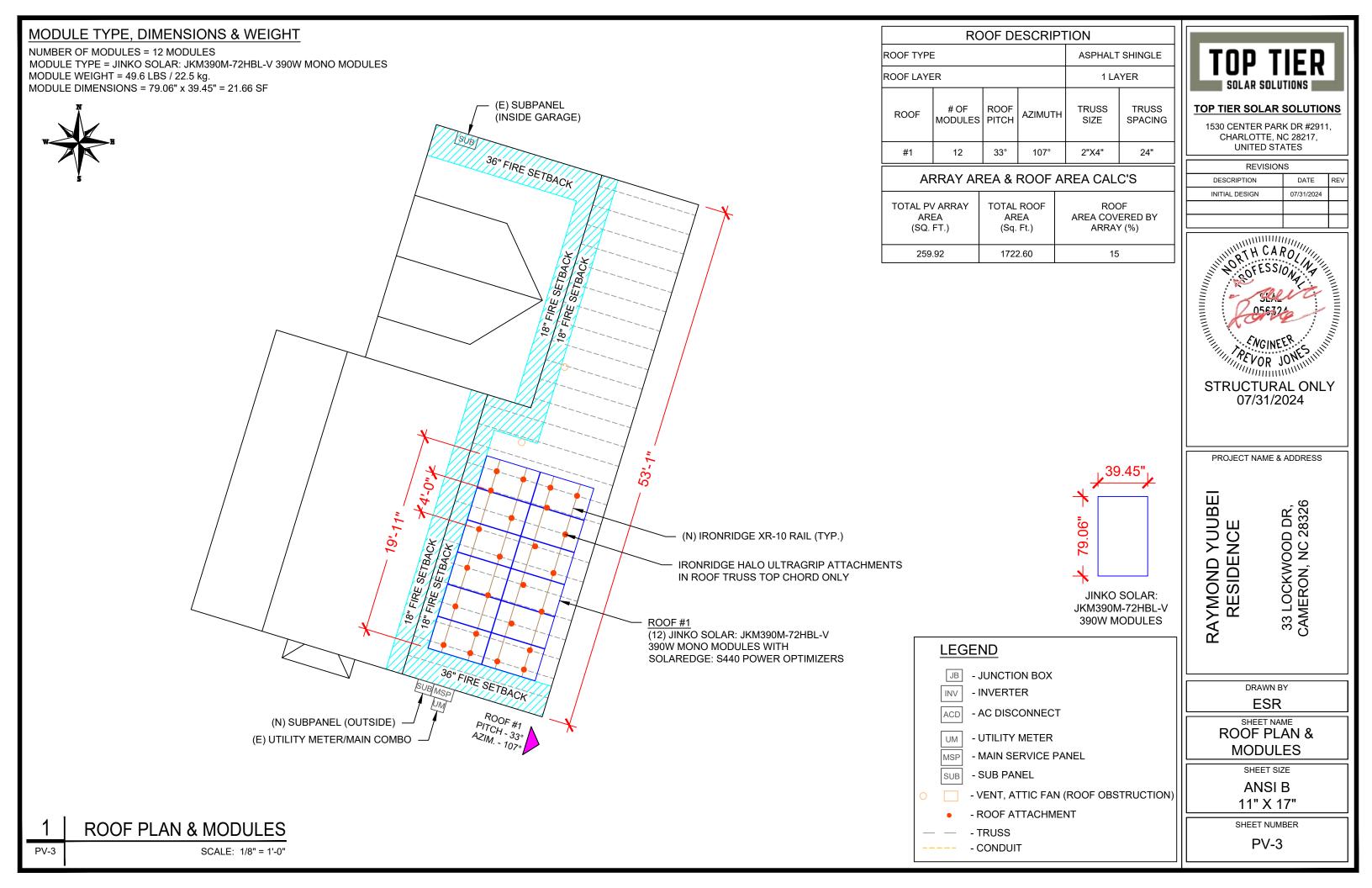
33 LOCKWOOD DR, CAMERON, NC 28326

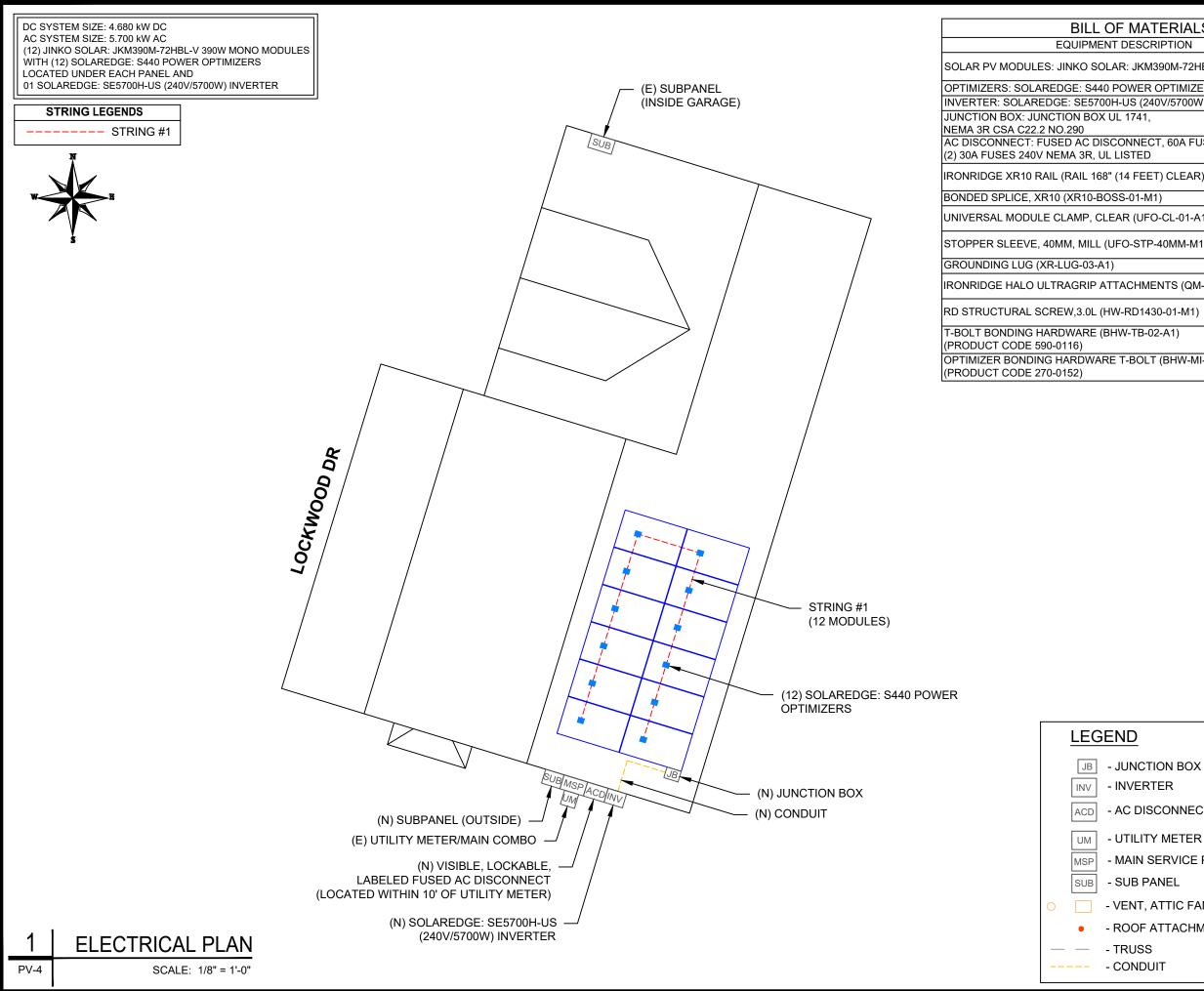
PROJECT DATA	GENERAL NOTES	VICI
PROJECT33 LOCKWOOD DR, CAMERON, NC 28326OWNER:RAYMOND YUUBEIDESIGNER:ESR	 ALL COMPONENTS ARE UL LISTED AND CEC CERTIFIED, WHERE WARRANTED. THE SOLAR PV SYSTEM WILL BE INSTALLED IN ACCORDANCE WITH ARTICLE 690 OF THE NEC 2017. THE UTILITY INTERCONNECTION APPLICATION MUST 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. 	33 Lock
SCOPE: 4.680 kW DC ROOF MOUNT SOLAR PV SYSTEM WITH 12 JINKO SOLAR: JKM390M-72HBL-V 390W PV MODULES WITH 12 SOLAREDGE: S440 POWER OPTIMIZERS AND 01 SOLAREDGE: SE5700H-US (240V/5700W) INVERTER	 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. 	Cameron, United
AUTHORITIES HAVING JURISDICTION: BUILDING: HARNETT COUNTY ZONING: HARNETT COUNTY UTILITY: CENTRAL EMC	 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. 	HOU
SHEET INDEXPV-1COVER SHEETPV-2SITE PLANPV-3ROOF PLAN & MODULESPV-4ELECTRICAL PLANPV-5STRUCTURAL DETAILPV-6ELECTRICAL LINE DIAGRAMPV-7WIRING CALCULATIONSPV-8LABELSPV-9+EQUIPMENT SPECIFICATIONS	 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 RESISTANT. ALL PLAQUES AND SINAGE WILL BE INSTALLED AS REQUIRED BY THE NEC AND AHJ. 12. INVERTER(S) USED IN UNGROUNDED SYSTEM SHALL BE UL 1741 LISTED. 13. THE INSTALLATION OF EQUIPMENT AND ALL ASSOCIATED WIRING AND INTERCONNECTION SHALL BE PERFORMED ONLY BY QUALIFIED PERSONS [NEC 690.4(C)] 14. ALL OUTDOOR EQUIPMENT SHALL BE NEMA 3R RATED (OR BETTER), INCLUDING ALL ROOF MOUNTED TRANSITION BOXES AND SWITCHES. 15. ALL EQUIPMENT SHALL BE PROPERLY GROUNDED AND BONDED IN ACCORDANCE WITH NEC ARTICLE 250. 16. SYSTEM GROUNDING SHALL BE IN ACCORDANCE WITH NEC 690.41. 17. PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION IN ACCORDANCE WITH NEC 690.12 	
SIGNATURE	 NEC 690.12 18. DISCONNECTING MEANS SHALL BE LOCATED IN A VISIBLE, READILY ACCESSIBLE LOCATION WITHIN THE PV SYSTEM EQUIPMENT OR A MAXIMUM OF 10 FEET AWAY FROM THE SYSTEM [NEC 690.13(A)] 19. ALL WIRING METHODS SHALL BE IN ACCORDANCE WITH NEC 690.31 20. WORK CLEARANCES AROUND ELECTRICAL EQUIPMENT WILL BE MAINTAINED PER NEC 110.26(A)(1), 110.26(A)(2) AND 110.26(A)(3). 21. ROOFTOP MOUNTED PHOTOVOLTAIC PANELS AND MODULES SHALL BE TESTED, LISTED & IDENTIFIED IN ACCORDANCE WITH UL1703 22. ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT EXPANSION JOINTS AND ANCHOR CONDUIT RUNS AS REQUIRED PER NEC. 	CODE R 2018 NORTH CAROLIN/ 2018 NORTH CAROLIN/ 2018 NORTH CAROLIN/ 2017 NATIONAL ELECT











TERIALS	
RIPTION	QTY
M390M-72HBL-V 390W MODULE	12
ROPTIMIZERS	12
40V/5700W) INVERTER	01
9	1
CT, 60A FUSED,)	1
ET) CLEAR) (XR-10-168A)	8
M1)	4
FO-CL-01-A1)	28
P-40MM-M1)	8
	2
IENTS (QM-HUG-01-M1)	26
430-01-M1)	52
02-A1)	26
T (BHW-MI-01-A1)	12



TOP TIER SOLAR SOLUTIONS

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

UNITEI	JSIA	ATES	
REV	ISION	S	
DESCRIPTION		DATE	REV
INITIAL DESIGN		07/31/2024	
PROJECT NA	ME &	ADDRESS	
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AYMOND YUUBEI RESIDENCE		33 LOCKWOOD DR, SAMERON, NC 28326	
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11"	<u>X 1</u>	7"	
SHEET	NUM	BER	

PV-4

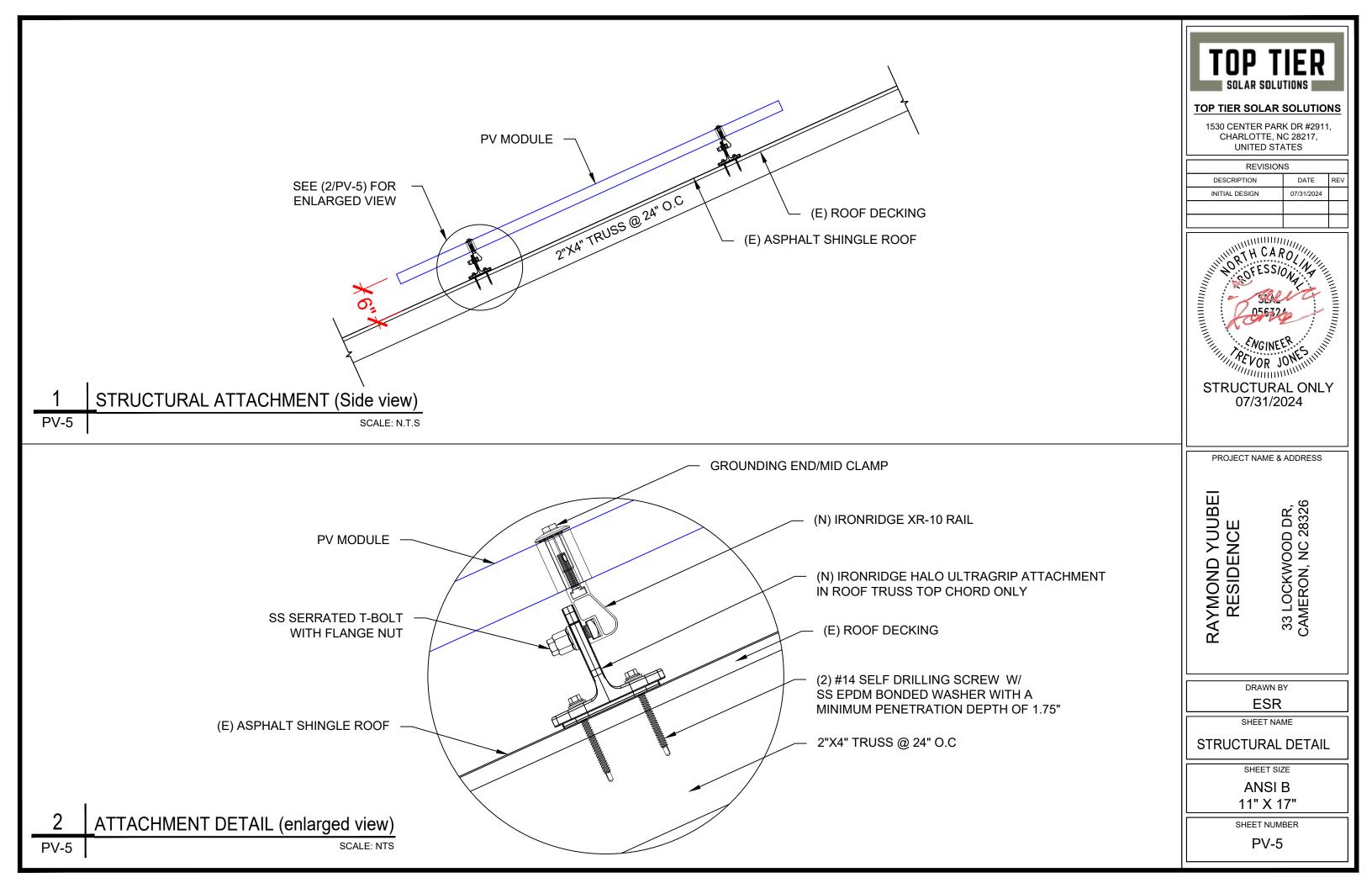
- AC DISCONNECT

- UTILITY METER

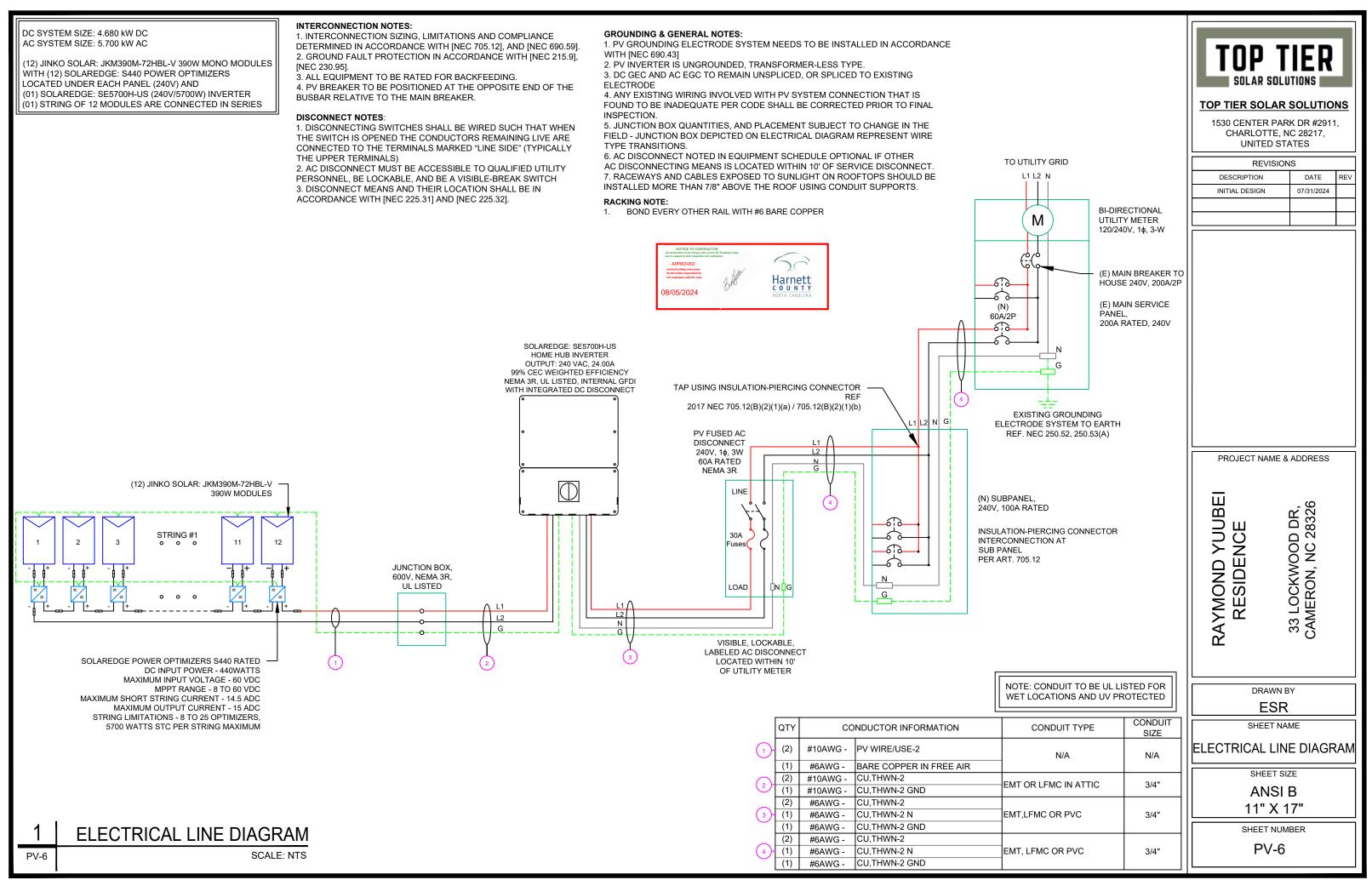
- MAIN SERVICE PANEL

- VENT, ATTIC FAN (ROOF OBSTRUCTION)

- ROOF ATTACHMENT



WITH (12) SOLAREDGE: S440 POWER OPTIMIZERS LOCATED UNDER EACH PANEL (240V) AND (01) SOLAREDGE: SE5700H-US (240V/5700W) INVERTER (01) STRING OF 12 MODULES ARE CONNECTED IN SERIES



SOLAR		INVERTE	R SPECIFICATIONS	AMBIENT TEMPERATURE SPECS					
		MANUEACTURER / MODEL #		SOLAREDGE: SE5700H-US (240V/5700W)		MANUFACTURER / MODEL # 1		AMBIENT TEMP (HIGH TEMP 2%)	
MANUFACTURER / MODEL #	JINKO SOLAR: JKM390M-72HBL-V 390W MODULE		WODEL #	RECORD LOW TEMPERATURE	-11°				
		NOMINAL AC POW	ER	5.700 kW		MODULE TEMPERATURE COEFFICIENT OF Voc	-0.29%/°C		
		NOMINAL OUTPUT VOLTAGE		240 VAC		7			
VMP	39.64V	NOMINAL OUTPUT CURRENT		24.00A		7			
IMP	9.84A		•		-				
VOC	48.60V	PERCENT OF	-	ER OF CURRENT					
ISC	10.46A	VALUES	CARRYING (CONDUCTORS IN EMT	4				
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					
WODULE DIWENSION	13.00 L X 33.43 W X 1.37 D (III IIICII)	.50		10-20	7				

	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)	90°C AMPACITY DERATED (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
JUNCTION BOX	INVERTER	380	15.00	18.75	20	CU #10 AWG	CU #10 AWG	35	PASS	38	2	40	0.91	1	36.4	PASS	30	1.24

String 1 Voltage

	AC FEEDER CALCULATIONS																		
CIRCUIT ORIGIN	CIRCUIT DESTINATION	VOLTAGE (V)	FULL LOAD AMPS "FLA" (A)	FLA*1.25 (A)	OCPD SIZE (A)	NEUTRAL SIZE	GROUND SIZE	CONDUCTOR SIZE	75°C AMPACITY (A)	AMPACITY CHECK #1	AMBIENT TEMP. (°C)	TOTAL CC CONDUCTORS IN RACEWAY	90°C AMPACITY (A)	FOR AMBIENT	DERATION FACTOR FOR CONDUCTORS PER RACEWAY NEC 310.15(B)(3)(a)	AMPACITY	AMPACITY CHECK #2	FEEDER LENGTH (FEET)	
INVERTER	AC DISCONNECT	240	24	30	30	CU #6 AWG	CU #6 AWG	CU #6 AWG	65	PASS	38	2	75	0.91	1	68.25	PASS	5	Γ
AC DISCONNECT	SUBPANEL	240	24	30	30	CU #6 AWG	CU #6 AWG	CU #6 AWG	65	PASS	38	2	75	0.91	1	68.25	PASS	5	Γ
SUBPANEL	METER MAIN COMBO	240	60	60	60	CU #6 AWG	CU #6 AWG	CU #6 AWG	65	PASS	38	2	75	0.91	1	68.25	PASS	5	

CUMULATIVE V

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.

DUCTOR ISTANCE VOLTAGE DROP AT FLA (%)	TOP TIER SOLAR SOLUTIONS TOP TIER SOLAR SOLUTIONS 1530 CENTER PARK DR #2911, CHARLOTTE, NC 28217, UNITED STATES REVISIONS DESCRIPTION DESCRIPTION DATE INITIAL DESIGN	
IM/KFT) AT FLA (%) SIZE FILL (%)		ļ
1.24 0.049 N/A #N/A 1.24 0.294 3/4" EMT 11.87617		
Drop 0.343		
H CONDUCTOR VOLTAGE CONDUIT CONDUIT		
(OHM/KFT) FLA (%) SIZE FILL (%)		
0.491 0.049 3/4" EMT 38.0488		
0.491 0.049 3/4" EMT 38.0488 0.491 0.123 3/4" EMT 38.0488		
VOLTAGE DROP 0.098		
	PROJECT NAME & ADDRESS	L T
	AYMOND YUUBEI RESIDENCE 33 LOCKWOOD DR, CAMERON, NC 28326	
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	RAYMOND YUU RESIDENCE 33 LOCKWOOD DI CAMERON, NC 283	
	DRAWN BY	٦
	ESR	
	SHEET NAME	L L
	WIRING CALCULATIONS	
	SHEET SIZE	ี้า
	ANSI B	
	11" X 17"	
		L
	SHEET NUMBER	
	PV-7	

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

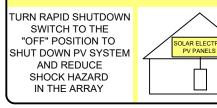
LABEL-4: <u>LABEL LOCATION:</u> MAIN SERVICE PANEL CODE REF: NEC 705.12(C) & NEC 690.59



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	30.50 A
MAXIMUM RATED OUTPUT CURRENT OF THE CHARGE CONTROLLER OR DC-TO-DC CONVERTER (IF INSTALLED)	

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

TOP TIER	
JULAR JULOTIONS	
TOP TIER SOLAR SOLUTIONS	3
1530 CENTER PARK DR #2911,	-
CHARLOTTE, NC 28217, UNITED STATES	
REVISIONS DESCRIPTION DATE RE	=V
INITIAL DESIGN 07/31/2024	
PROJECT NAME & ADDRESS	
RAYMOND YUUBEI RESIDENCE 33 LOCKWOOD DR, CAMERON, NC 28326	
DRAWN BY ESR	
SHEET NAME	Ī
LABELS	
SHEET SIZE	
ANSI B 11" X 17"	
SHEET NUMBER	Ϊ
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

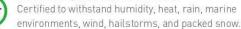


8

Shade Tolerant

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

Protected Against All Environments



Warranty 会

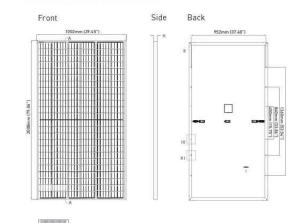
25-year product and 25-year linear power warranty.

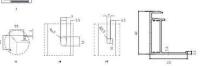
- ISO 45001 2018 Occupational
- Health & Safety Standards UL1703/61730 certified





ENGINEERING DRAWINGS





Length: ± 2mm Width: ± 2mm Height: ± 1mm Row Pitch: ± 2mm

ELECTRICAL PERFORMANCE & TEMPERATURE DEPENDENCE

Current-Voltage & Power-Voltage Curves(400W) Voltage (V)

Temperature Dependence of Isc, Voc, Pmax

(Two pallets = One stack)

25-year product and 25-year linear power warranty

ELECTRICAL CHARACTERISTICS

Module Type	JK M380 M	-72HBL-V	JKM385M-72HBL-V		JKM390M-72HBL-V		JKM395M-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	38%	19.	63%	19.	88%

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

Cell Temperature 25°C Ambient Temperature 20°C

△ AM = 1.5△ AM = 1.5 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

MECHANICAL CHARACTERISTICS

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

27pcs/pallet, 54pcs/stack, 594pcs/40'HQ Container

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.

Cell Temperature (°C)

Diamond Cell (158.75 x 158.75mm)

x 40mm (79.06 x 39.45 x 1.57in)

6lbs]

nti-Reflection Coating smission, Low Iron, Tempered Glass

luminum Alloy

00mm (55.12in)

4 Series

now) & 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	07/31/2024								

PROJECT NAME & ADDRESS

RESIDENCE

33 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 line 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	07/31/2024			

PROJECT NAME & ADDRESS

ш YUUB RESIDENCE

33 LOCKWOOD DR, CAMERON, NC 28326

DRAWN BY ESR

SHEET NAME

EQUIPMENT

SPECIFICATION

SHEET SIZE ANSI B 11" X 17" SHEET NUMBER PV-10

Power Optimizer

For Residential Installations

S440 / S500 / S500B / S650B



POWER OPTIMIZER

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%)

- 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	2	600	650	W	
Absolute Maximum Input Voltage (Voc)	6)	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		9	9.5		%	
Weighted Efficiency	98.6					
Overvoltage Category						
OUTPUT DURING OPERTION						
Maximum Output Current	15					
Maximum Output Voltage	60 80					
OUTPUT DURING STANDBY (POWER OPTIMIZER	DISCONNECTED	FROM INVERTER	OR INVERTER OF	F)		
Safety Output Voltage per Power Optimizer			: 0.1		Vdo	
STANDARD COMPLIANCE ⁽²⁾						
EMC	FCC Part 15 Class B; IEC61000-6-2, IEC61000-6-3, CISPR11, EN-55011					
Safety		IEC62109-1 (class	s II safety), UL1741			
Material		UL94 V-0,	UV Resistant			
RoHS		Ŷ	es			
Fire Safety		VDE-AR-E 210	00-712:2018-12			
INSTALLATION SPECIFICATIONS					*	
Maximum Allowed System Voltage		10	100		Vdd	
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	(4)			
Input Wire Length		(0,1		m	
Output Connector		M	IC4			
Output Wire Length		(+) 2.3	. (-) 0.10		m	
Operating Temperature Range ⁽⁴⁾		-40 t	o +85		*C	
Protection Rating		IP	68			
Relative Humidity		0 -	100		%	

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

(3) For other connector types please contact SolarEdge.

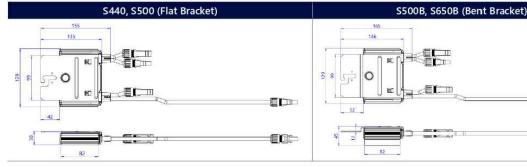
(4) Power (le-rating is applied for ambient ter	peratures above +85°C for	5440 and 5500,	and for ambient temperatures ab	ove +75°C for S500B. Refer to the
Power (Optimizers Temperature De-Rating	Technical Note for details.			

PV System Design 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	S440, S 500	8	9	16	18	
(Power Optimizers)	S500B, S650B	6	8	1	4	
Maximum String Length (Po	ower Optimizers)	25	20	5	0	
Maximum Continuous Powe	er per String	5700	5625	11250	12750	W
	ted Power per String naximum is permitted only when the petween strings is 2,000W or less)	See ^{i®}	See ^{isi}	13500	15000	W
Parallel Strings of Different	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





solaredge.com

* Functionality subject to inverter model and firmware version



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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	07/31/2024	

PROJECT NAME & ADDRESS

33 LOCKWOOD DR, CAMERON, NC 28326

RAYMOND YUUBEI RESIDENCE

DRAWN BY

ESR SHEET NAME

EQUIPMENT

SPECIFICATION

SHEET SIZE

ANSI B

11" X 17"

SHEET NUMBER PV-11

SolarEdge Home Hub Inverter

Single Phase, for North America For Inverters Assembled in the USA

SE3800H-US / SE5700H-US / SE7600H-US / SE10000H-US / SE11400H-US



Single phase inverter for storage and backup applications

- *I* The ultimate home energy manager in charge of PV production, battery storage, backup operation during a power outage*, EV Charging, and smart energy devices
- Record-breaking 99% weighted efficiency with 1 up to 300% DC oversizing
- Supports LRA can provide the required energy for HVAC systems starting during backup operation
- Integrates seamlessly with the complete 1 SolarEdge Home Smart Energy Ecosystem, through SolarEdge Home Network
- Module-level monitoring and visibility of 1 battery status, PV production, and selfconsumption data

*Requires additional hardware and firmware version upgrade

Fast and easy installation – small and lightweight, with reduced commissioning time

HOME BACKU

- A scalable solution that supports future homeowner needs through easy connection to a growing ecosystem of products
- Advanced safety features with integrated arc fault protection and rapid shutdown for 690.11 and 690.12
- Advanced reliability with automotive-grade components
- I Embedded revenue grade production data, ANSI C12.20 Class 0.5
- IP65-rated, for indoor and outdoor installations



/ SolarEdge Home Hub Inverter Single Phase, for North America

SE3800H-US / SE5700H-US / SE7600H-US / SE10000H-US / SE11400H-US

Model Number ⁽¹⁾⁽²⁾	SE3800H-US	SE5700H-US	SE7600H-US	SE10000H-US	SE11400H-US	Units
OUTPUT – AC ON GRID						
Rated AC Power	3800 @ 240V 3300 @ 208V	5760 @ 240V 5000 @ 208V	7600	10000	11,400 @ 240V 10,000 @ 208V	W
Maximum AC Power Output	3800 @ 240V 3300 @ 208V	5760 @ 240V 5000 @ 208V	7600	10000	11,400 @ 240V 10,000 @ 208V	W
AC Output Voltage (Nominal)			208 / 240			Vac
AC Output Voltage (Range)			183 – 264			Vac
AC Frequency Range (min - nom - max)		55	9.3 – 60 – 60.5 ⁽³⁾			Hz
Maximum Continuous Output Current	16	24	32	42	48	A
GFDI Threshold			1			A
Total Harmonic Distortion (THD)			< 3			%
Power Factor		1, adju	ustable -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			W
OUTPUT – AC STAND-ALONE (BACKUP) ⁽⁴⁾⁽⁵⁾						
Rated AC Power in Stand-alone Operation			11,400 ⁽⁶⁾			W
Maximum Stand-alone Capacity			11,400			W
AC L-L Output Voltage Range in Stand-alone Operation			211 – 264			Vac
AC L-N Output Voltage Range in Stand-alone Operation		105 – 132				Vac
AC Frequency Range in Stand-alone (min - nom - max)	55 - 60 - 65				Hz	
Maximum Continuous Output Current in Stand-alone Operation	48				A	
GFDI	1				A	
THD			< 5			%
OUTPUT - SOLAREDGE HOME EV CHARGER AC						
Rated AC Power			9600			W
AC Output Voltage Range			211 – 264			Vac
On-Grid AC Frequency Range (min - nom - max)		5	59.3 - 60 - 60.5			Hz
Maximum Continuous Output Current @240V (grid, PV and battery)			40			Aac
INPUT – DC (PV AND BATTERY)						
Transformer-less, Ungrounded			Yes			
Max Input Voltage			480			Vdc
Nom DC Input Voltage			380			Vdc
Reverse-Polarity Protection			Yes			
Ground-Fault Isolation Detection		6	i00kΩ Sensitivity			
INPUT – DC (PV)						
Maximum DC Power @ 240V	11,400	11,520	15,200	20,000	22,800	W
Maximum DC Power @ 208V	6600	10,000	-	-	20,000	W
Maximum Input Current ⁽⁷⁾ @ 240V	20	30.5	40	53	60	Adc
Maximum Input Current ⁽⁷⁾ @ 208V	17.5	27	-	-	53	Adc
Maximum Input Short Circuit Current			45			Adc
Maximum Inverter Efficiency			99.2			%
CEC Weighted Efficiency	98	.5		99	99 @ 240V 98.5 @ 208V	%
2-pole Disconnection			Yes		1 2012 6 2001	+

(1) These specifications apply to inverters with part numbers SExxxxH-USMNUxxx5 and SExxxxH-USMNExxx5 and connection unit model number DCD-1PH-US-PxH-F-x. 2) Inverters with part number SExxxxH-USMNFxxx5 are intended for upgrade installations only, as part of the "Re-Energize" program. Use on non-upgrade installations will revoke the product warranty. (3) For other regional settings please refer to the SolarEdge Inverters, Power Control Options Application Note.

(4) Not designed for non-arid connected applications and requires AC for commissioning. Stand-alone (backup) functionality is only supported for the 240V grid. (5) For LRA (Locked Rotor Amperage) values please refer to the LRA for NAM Application Note.

(6) For models SE7600H-US and below, the rated AC stand-alone power is configurable between 7600W or 11,400W from CPU version 4.20.xx. (7) A higher current source may be used. The inverter will limit its input current to the values stated.

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

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DESCRIPTION		DATE	REV
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/ SolarEdge Home Hub Inverter Single Phase, for North America

SE3800H-US / SE5700H-US / SE7600H-US / SE10000H-US / SE11400H-US

Model Number ⁽¹⁾⁽²⁾	SE3800H-US	SE5700H-US	SE7600H-US	SE10000H-US	SE11400H-US	Units	
OUTPUT – DC (BATTERY)							
Supported Battery Types		SolarEdge Ho	ome Battery, LG RES	U Prime			
Number of Batteries per Inverter		Up to 3 SolarEdge Ho	ome Battery, up to 2	LG RESU Prime			
Continuous Power ⁽⁸⁾	11,400 @ 240V 3800 @ 208V	11,400 @ 240V 5000 @ 208V	11400	@240V	11,400 @ 240V 10,000 @ 208V	W	
Peak Power ⁽⁸⁾	11,400 @ 240V 3800 @ 208V	11,400 @ 240V 5000 @ 208V	11400	@240V	11,400 @ 240V 10,000 @ 208V	W	
Maximum Input Current		30					
2-pole Disconnection		Up to the inver	ter's rated stand-alo	ne power			
SMART ENERGY CAPABILITIES							
Consumption Metering			Built-in ⁽⁹⁾				
Stand-alone & Battery Storage	With Backup I	nterface (purchased se	eparately) for service	e up to 200A; up to	3 inverters		
EV Charging		Direct connection to the SolarEdge Home EV Charger					
ADDITIONAL FEATURES							
Supported Communication Interfaces	RS485, Ethe	ernet, Cellular ⁽¹⁰⁾ , Wi-Fi	(optional), SolarEdg	je Home Network (c	optional)		
Revenue Grade Metering, ANSI C12.20		Built-in ⁽⁹⁾					
Integrated AC, DC and Communication Connection Unit	Yes						
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi Access Point for local connection						
DC Voltage Rapid Shutdown (PV and Battery)		γ	'es, NEC 690.12				
STANDARD COMPLIANCE							
Safety	UL 1741, UL 1741SA, U	JL 1741SB, UL 1699B, C	CSA 22.2#107.1, C22,	2#330, C22.3#9, AN	SI/CAN/UL 9540		
Grid Connection Standards		IEEE1547 and I	EEE-1547.1, Rule 21,	Rule 14H			
Emissions		FC	C Part 15 Class B				
INSTALLATION SPECIFICATIONS	- /						
AC Terminals		L1, L2, N terminal bloc L2 terminal blocks, PE					
DC Terminals	4 x termi	nal block pairs for PV	input; 1 x terminal b	lock pair for battery	input		
AC Output and EV AC Output Conduit Size / AWG Range		1'' ma	aximum / 14-4 AWG				
DC Input (PV and Battery) Conduit Size / AWG Range		1" ma	aximum / 14-6 AWG				
Dimensions with Connection Unit (H x W x D)		21.06 x 14.	6 x 8.2 / 535 x 370 x	208		in / mn	
Weight with Connection Unit			44.9 / 20.3			lb / kg	
Noise			< 50			dBA	
Cooling		Na	atural Convection				
Operating Temperature Range		-40 to	+140 / -40 to +60 ⁽¹¹⁾)		°F/°C	
Protection Rating			NEMA 4X				

(8) Discharge power is limited up to the inverter's rated AC power for on-grid and stand-alone applications, as well as up to the installed batteries' rating.
 (9) For consumption metering current transformers should be ordered separately. SECT-SPL-225A-T-20 or SEACTI250-400NA-20. Revenue grade metering is only for production metering.
 (10) Information concerning the data plan terms & conditions is available in <u>SolarEdge Communication Plan Terms and Conditions</u>.
 (11) Full power up to at least 50°C / 122°F; for power derating information refer to the <u>Temperature Derating Technical Note for North America</u>.

TOP TIER SOLAR SOLUTIONS				
TOP TIER SOLAR 1530 CENTER PAR CHARLOTTE, N	K DR #2911	_		
UNITED STA	ATES			
REVISION DESCRIPTION	S DATE	REV		
INITIAL DESIGN	07/31/2024	REV		
PROJECT NAME &	ADDRESS			
RAYMOND YUUBEI RESIDENCE	33 LOCKWOOD DR, CAMERON, NC 28326			
ESR SHEET NAME EQUIPMENT SPECIFICATION				
SHEET SIZE ANSI B 11" X 17"				
	SHEET NUMBER PV-13			



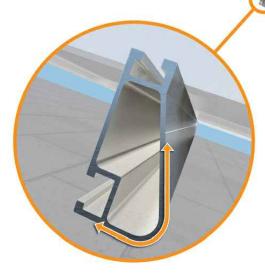
Tech Brief

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 fit
 Internal splices available

XR10 solar extree feet f • 12 • Ex

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.

Load		Rail Span		Span	
Snow (PSF)	Wind (MPH)	4 ¹	5' 4"	6'	8'
	90				
News	120				
None	140	140 XR10 160		XR100	
	160				
	90				
	120				
20	140				
	160				
30	90				
30	160				
40	90				
40	160				
80	160				
120	160				

Table is meant to be a simplified span chart for conveying general rail capabilities. Use approved



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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SOLAR SOLUTIONS

TOP TIER SOLAR SOLUTIONS

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

REVISIONS			
DESCRIPTION	DATE	REV	
INITIAL DESIGN	07/31/2024		

PROJECT NAME & ADDRESS

RAYMOND YUUBEI RESIDENCE

33 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

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

and bonds the L-foot® to the

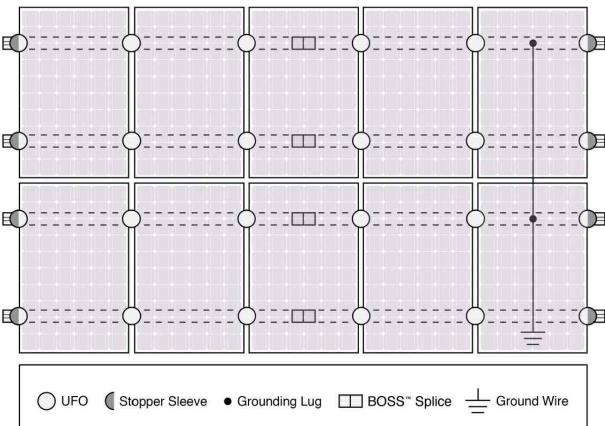
same socket as the rest of the

The bonding bolt attaches

rail. It is installed with the

system.

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 Com			
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 ir		
Fire Rating	Class A	Cla	
Modules	Tested or Evaluated with Refer to installation ma		

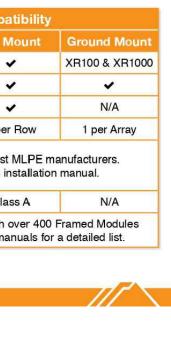
BOSS[®] Splice Bonded Structural Splice connects rails with built-in bonding teeth. No tools or

hardware needed



Grounding Lug A single Grounding Lug connects an entire row of PV modules to the grounding conductor.





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

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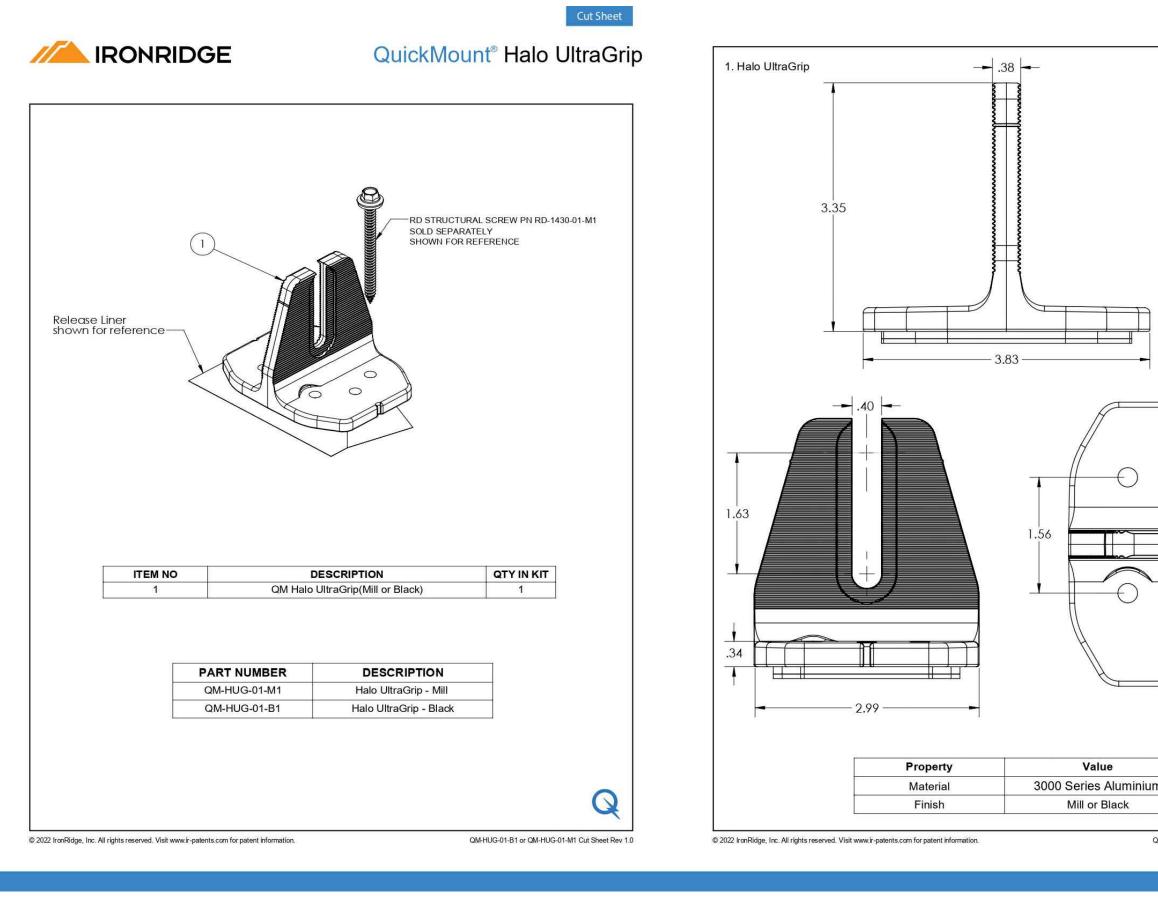
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SHEET NAME EQUIPMENT

SPECIFICATION SHEET SIZE

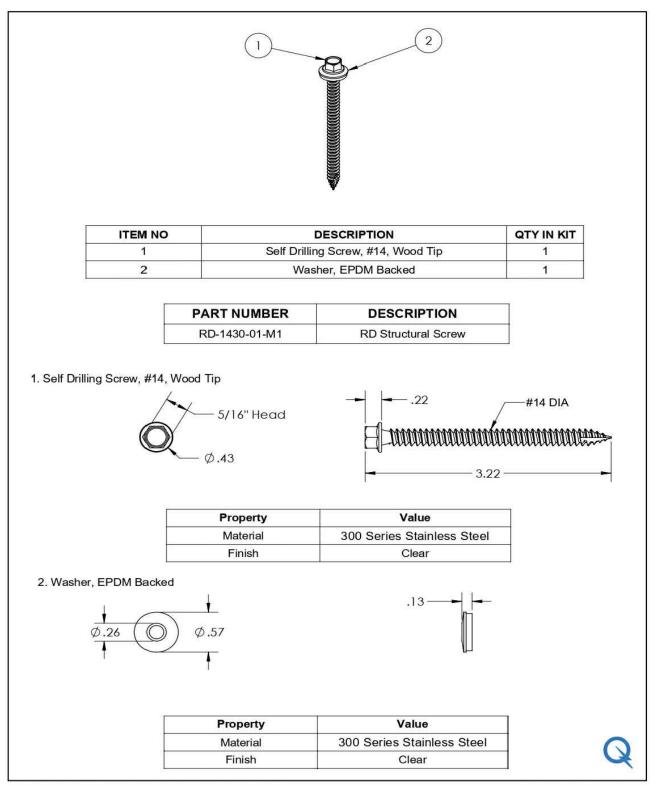
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	TOP TIER SOLAR SOLUTIONS 1530 CENTER PARK DR #2911, CHARLOTTE, NC 28217, UNITED STATES	
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	INITIAL DESIGN	07/31/2024
		33 LOCKWOOD DR, CAMERON, NC 28326
	DRAWN B	
n	ESR	
2M-HUG-01-B1 or QM-HUG-01-M1 Cut Sheet Rev 1.0	SHEET NA EQUIPMI SPECIFICA	ENT
	SHEET SIZE	
	ANSI 11" X 1	
	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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TOP TIER SOLAR	SOLUTIO	NS	
1530 CENTER PAR CHARLOTTE, N		,	
UNITED STA			
REVISION	S DATE	REV	
INITIAL DESIGN	07/31/2024	TLE V	
PROJECT NAME &	ADDRESS		
RAYMOND YUUBEI RESIDENCE	33 LOCKWOOD DR, CAMERON, NC 28326		
DRAWN BY			
ESR			
EQUIPMENT SPECIFICATION			
SHEET SIZE ANSI B 11" X 17"			
SHEET NUM PV-1			

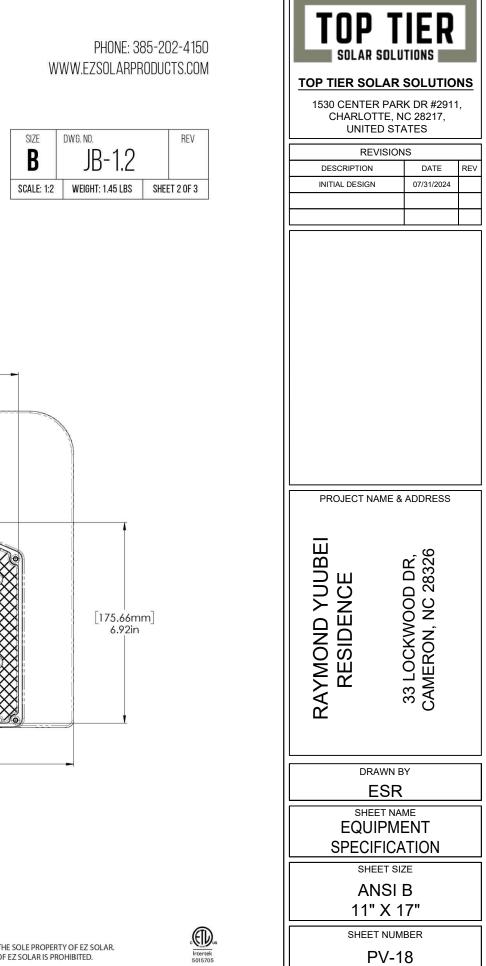


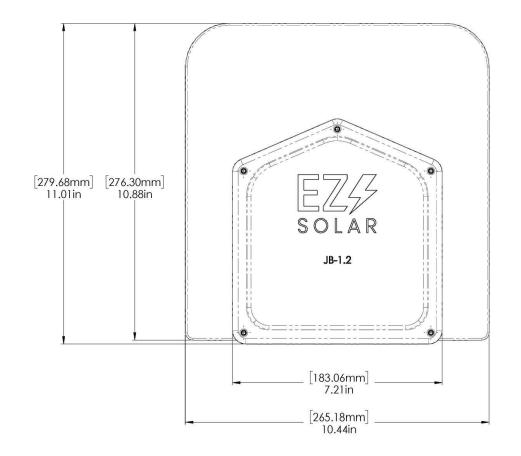
PHONE: 385-202-4150 WWW.EZSOLARPRODUCTS.COM

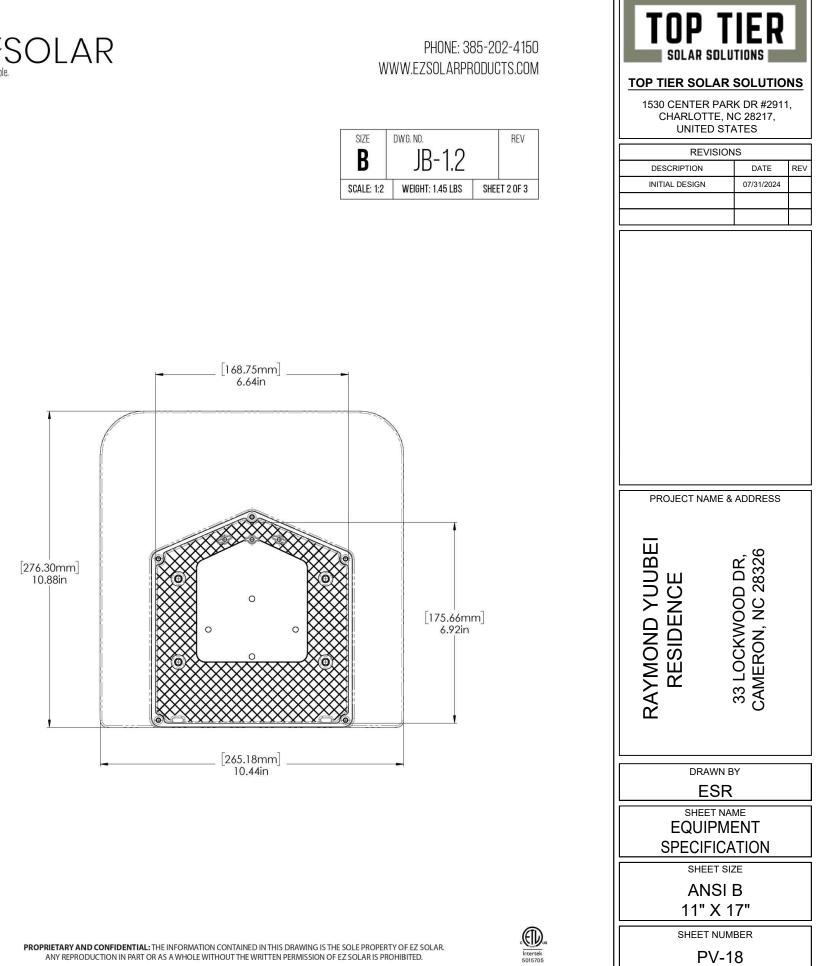


ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	JB-1.2 BODY	POLYCARBONATE WITH UV INHIBITORS	1
2	JB-1.2 LID	POLYCARBONATE WITH UV INHIBITORS	1
3	#10 X 1-1/4" PHILLIPS PAN HEAD SCREW		6
4	#8 X 3/4" PHILLIPS PAN HEAD SCREW		6

size B	dwg. no.	8-1.2		REV
SCALE: 1:2	WEIGHT	: 1.45 LBS	SHEE	T 1 OF 3
TORQUE SPEC	IFICATION:	18	5-20 L	.BS
CERTIFIC	ation:	UL 1741, NEMA 31 CSA C22.2 NO. 29		
WEIG	HT:	1.	45 L B	S









_ [72.53mm] _ 2.86in