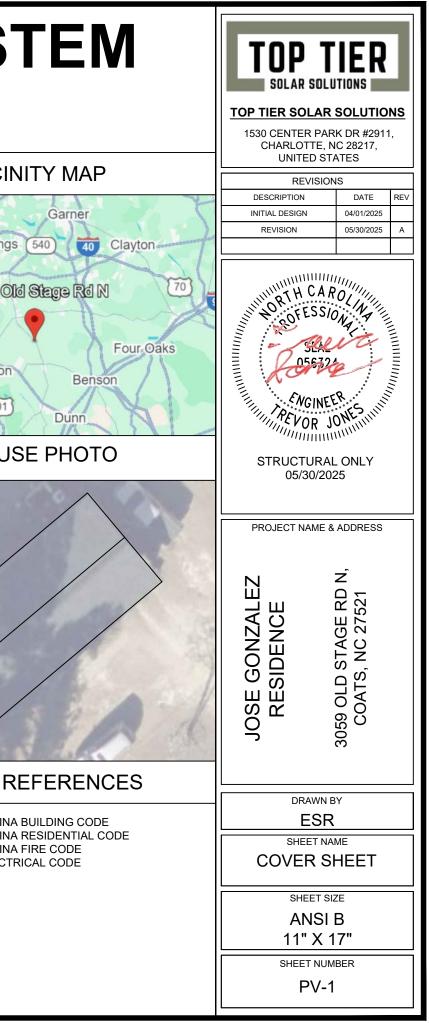
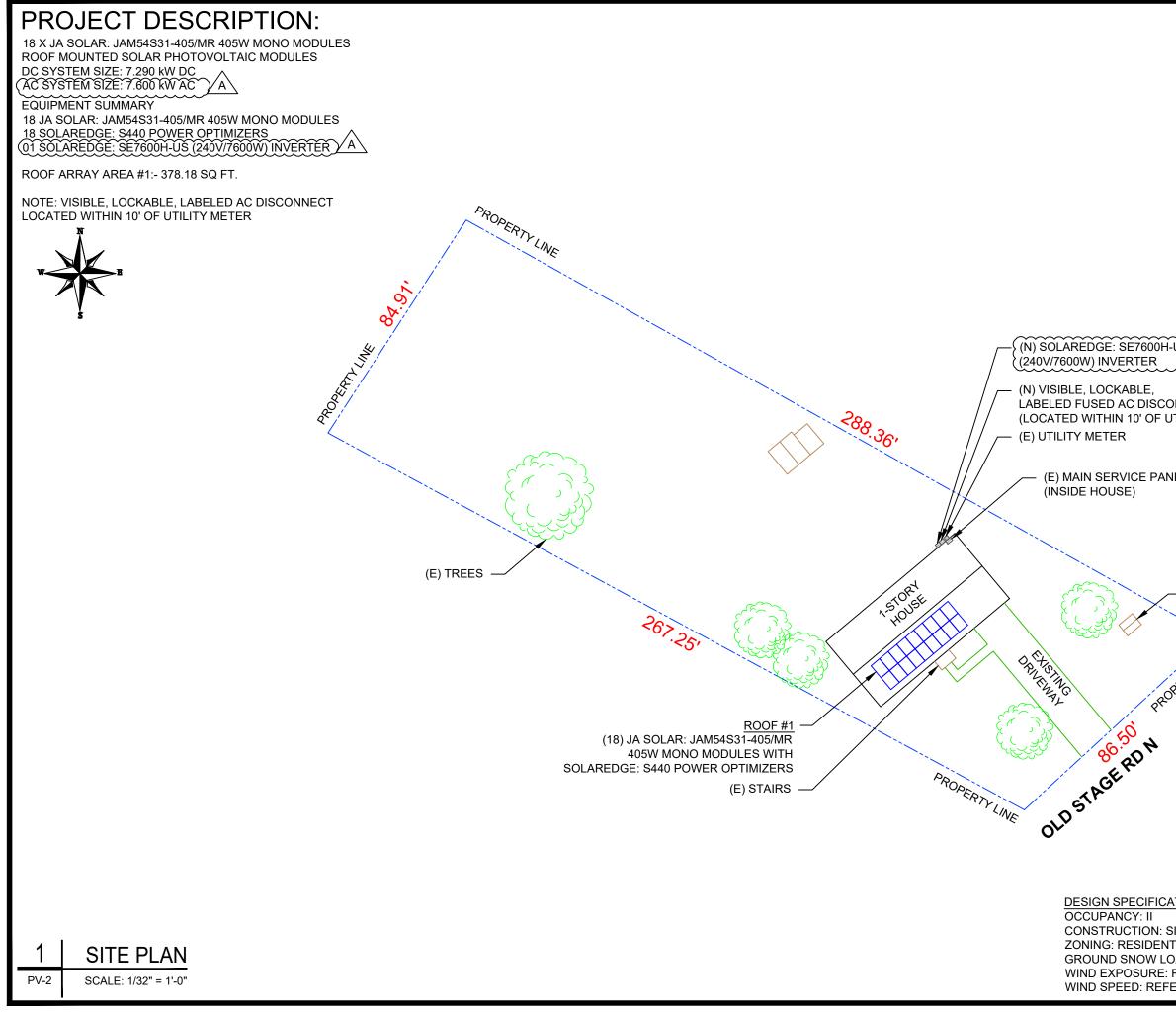
PHOTOVOLTAIC ROOF MOUNT SYSTEM

18 MODULES-ROOF MOUNTED - 7.290 kW DC,{7.600 kW AC}

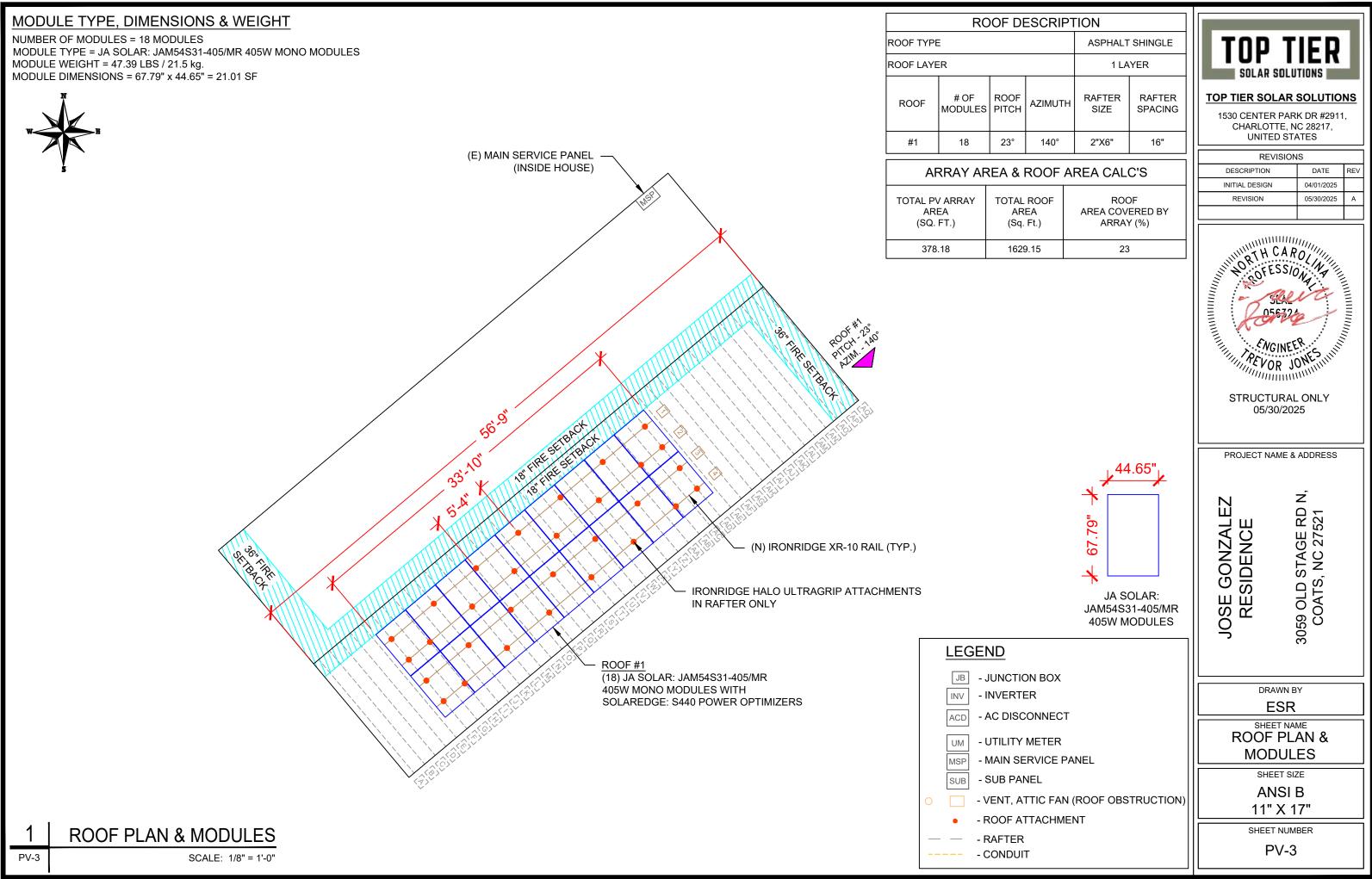
3059 OLD STAGE RD N, COATS, NC 27521

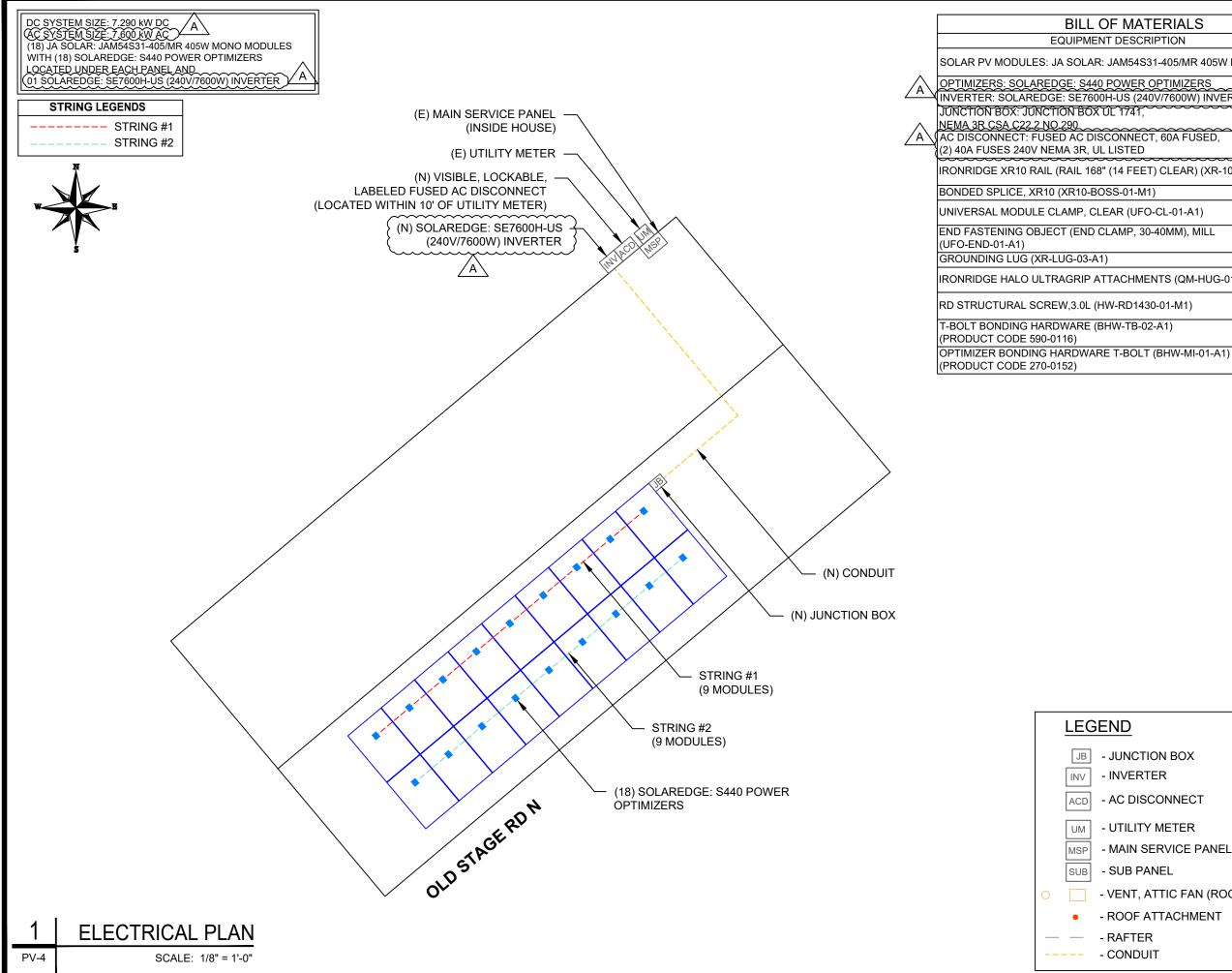
PROJECT DATA	GENERAL NOTES	VICIN
PROJECT 3059 OLD STAGE RD N, ADDRESS: COATS, NC 27521 OWNER: JOSE GONZALEZ DESIGNER: ESR SCOPE: 7.290 kW DC ROOF MOUNT SOLAR PV SYSTEM WITH 18 JA SOLAR: JAM54S31-405/MR 405W PV MODULES WITH	 ALL COMPONENTS ARE UL LISTED AND CEC CERTIFIED, WHERE WARRANTED. THE SOLAR PV SYSTEM WILL BE INSTALLED IN ACCORDANCE WITH ARTICLE 690 OF THE NEC 2017. THE UTILITY INTERCONNECTION APPLICATION MUST BE APPROVED AND PV SYSTEM INSPECTED PRIOR TO PARALLEL OPERATION. ALL CONDUCTORS OF A CIRCUIT, INCLUDING THE EGC, MUST BE INSTALLED IN THE SAME RACEWAY, OR CABLE, OR OTHERWISE RUN WITH THE PV ARRAY CIRCUIT CONDUCTORS WHEN THEY LEAVE THE VICINITY OF THE PV ARRAY. WHERE METALLIC CONDUIT CONTAINING DC CONDUCTORS IS USED INSIDE THE BUILDING, IT SHALL BE IDENTIFIED AS "CAUTION: SOLAR CIRCUIT" EVERY 10FT. HEIGHT OF THE AC DISCONNECT SHALL NOT EXCEED 6'-7" PER NEC CODE 240.24. 	Apex Apex Holly Springs 3059 OI 421 Lillington
18 SOLAREDGE: S440 POWER OPTIMIZERS AND (01 SOLAREDGE: SE7600H-US (240V/7600W) INVERTER AUTHORITIES HAVING JURISDICTION: BUILDING: HARNETT COUNTY ZONING: HARNETT COUNTY UTILITY: DUKE ENERGY PROGRESS	 A GROUNDING ELECTRODE SYSTEM IN ACCORDANCE WITH CEC 690.47 AND 250.50 THROUGH 50 AND 250-166 SHALL BE PROVIDED. PER NEC GROUNDING ELECTRODE SYSTEM OF EXISTING BUILDING MAY BE USED AND BONDED TO THE SERVICE ENTRANCE. IF EXISTING SYSTEM IS INACCESSIBLE OR INADEQUATE A SUPPLEMENTAL GROUNDING ELECTRODE WILL BE USED AT THE INVERTER LOCATION CONSISTING OF A UL LISTED 8 FT. GROUND ROD WITH ACORN CLAMP. GROUNDING ELECTRODE CONDUCTORS SHALL BE NO LESS THAN #8 AWG AND NO LARGER THAN #6 AWG COPPER AND BONDED TO THE EXISTING GROUNDING ELECTRODE TO PROVIDE FOR A COMPLETE SYSTEM. PHOTOVOLTAIC MODULES ARE TO BE CONSIDERED NON-COMBUSTIBLE. PHOTOVOLTAIC INSTALLATION WILL NOT OBSTRUCT ANY PLUMBING. MECHANICAL, OR BUILDING ROOF VENTS. ALL WIRING MUST BE PROPERLY SUPPORTED BY DEVICES OR MECHANICAL MEANS DESIGNED AND LISTED FOR SUCH USE. 	Anderson HOUS
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	 DISCONNECTING MEANS SHALL BE LOCATED IN A VISIBLE, READILY ACCESSIBLE LOCATION WITHIN THE PV SYSTEM EQUIPMENT OR A MAXIMUM OF 10 FEET AWAY FROM THE SYSTEM [NEC 690.13(A)] ALL WIRING METHODS SHALL BE IN ACCORDANCE WITH NEC 690.31 WORK CLEARANCES AROUND ELECTRICAL EQUIPMENT WILL BE MAINTAINED PER NEC 110.26(A)(1), 110.26(A)(2) AND 110.26(A)(3). ROOFTOP MOUNTED PHOTOVOLTAIC PANELS AND MODULES SHALL BE TESTED, LISTED & IDENTIFIED IN ACCORDANCE WITH UL1703 ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT EXPANSION JOINTS AND ANCHOR CONDUIT RUNS AS REQUIRED PER NEC. 	CODE R 2018 NORTH CAROLINA 2018 NORTH CAROLINA 2018 NORTH CAROLINA 2017 NATIONAL ELECTI





	TOP TIER SOLAR SOLUTIONS					
	1530 CENTER PA CHARLOTTE, UNITED ST	NC 28217,				
	REVISIO	NS				
		DATE REV				
	INITIAL DESIGN REVISION	04/01/2025 05/30/2025 A				
H-US A CONNECT UTILITY METER)	ANGINE STRUCTURA 05/30/20	ER				
	PROJECT NAME	_				
(E) DETACHED STRUCTURE (TYP.)	JOSE GONZALEZ RESIDENCE	3059 OLD STAGE RD N COATS, NC 27521				
	DRAWN					
	SHEET N					
CATION	SHEET S					
	ANSI 11" X					
SINGLE-FAMILY NTIAL	[
OTAL OAD: REFER STRUCTURAL LETTER :: REFER STRUCTURAL LETTER FER STRUCTURAL LETTER						





TERIALS	
RIPTION	QTY
S31-405/MR 405W MODULE	18
ROPTIMIZERS	18
40V/7600W) INVERTER	01
,	1
CT, 60A FUSED,	1
ET) CLEAR) (XR-10-168A)	12
И1)	8
FO-CL-01-A1)	32
30-40MM), MILL	8
	2
IENTS (QM-HUG-01-M1)	30
430-01-M1)	60
02-A1)	30
T (BHW-MI-01-A1)	18



TOP TIER SOLAR SOLUTIONS

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

REVISIONS							
DESCRIPTION	DATE	REV					
INITIAL DESIGN	04/01/2025						
REVISION	05/30/2025	А					

PROJECT NAME & ADDRESS

Ź Ы 3059 OLD STAGE RD COATS, NC 27521 JOSE GONZALE RESIDENCE DRAWN BY ESR SHEET NAME ELECTRICAL PLAN

ANSI B

11" X 17"

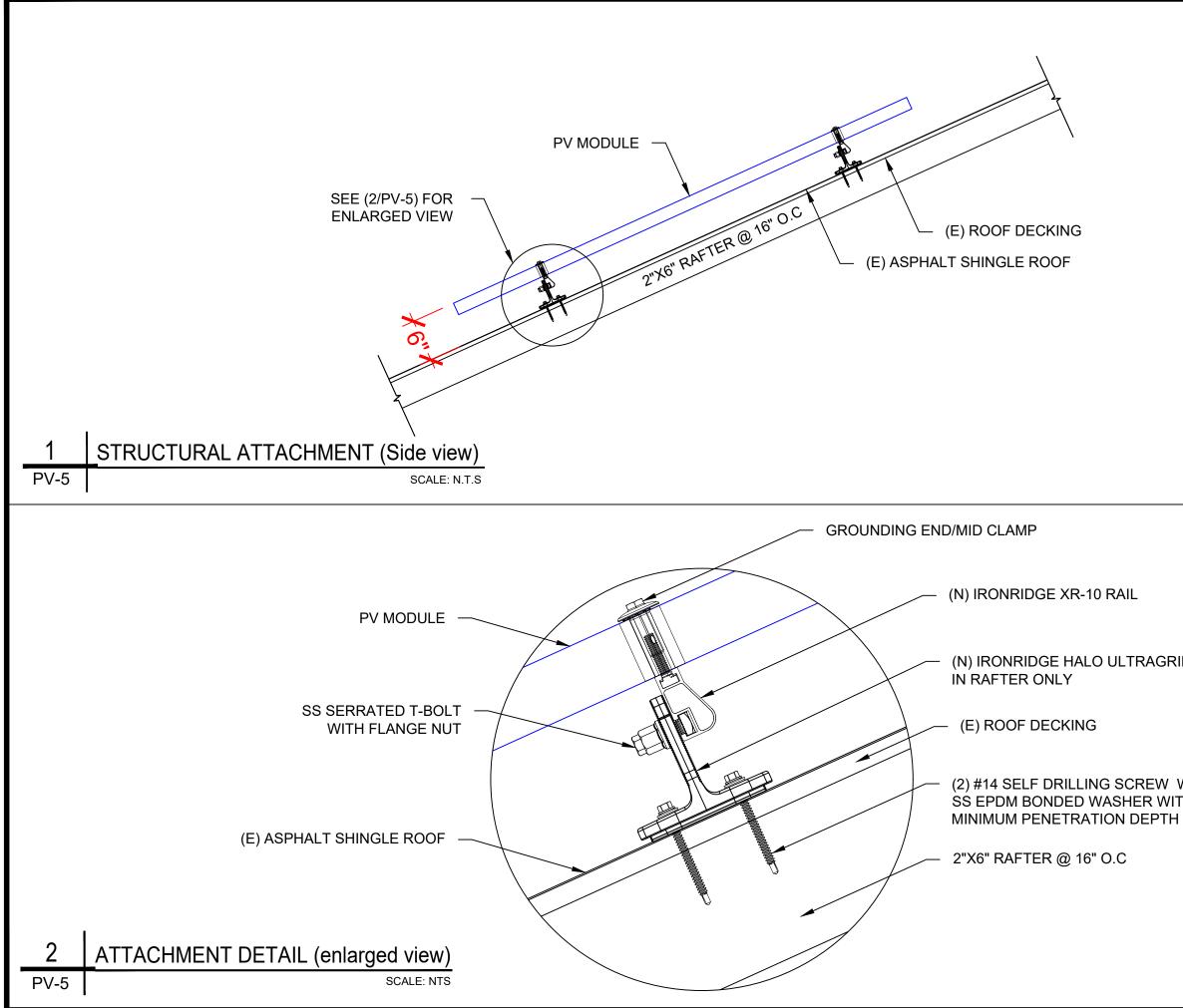
SHEET NUMBER

PV-4

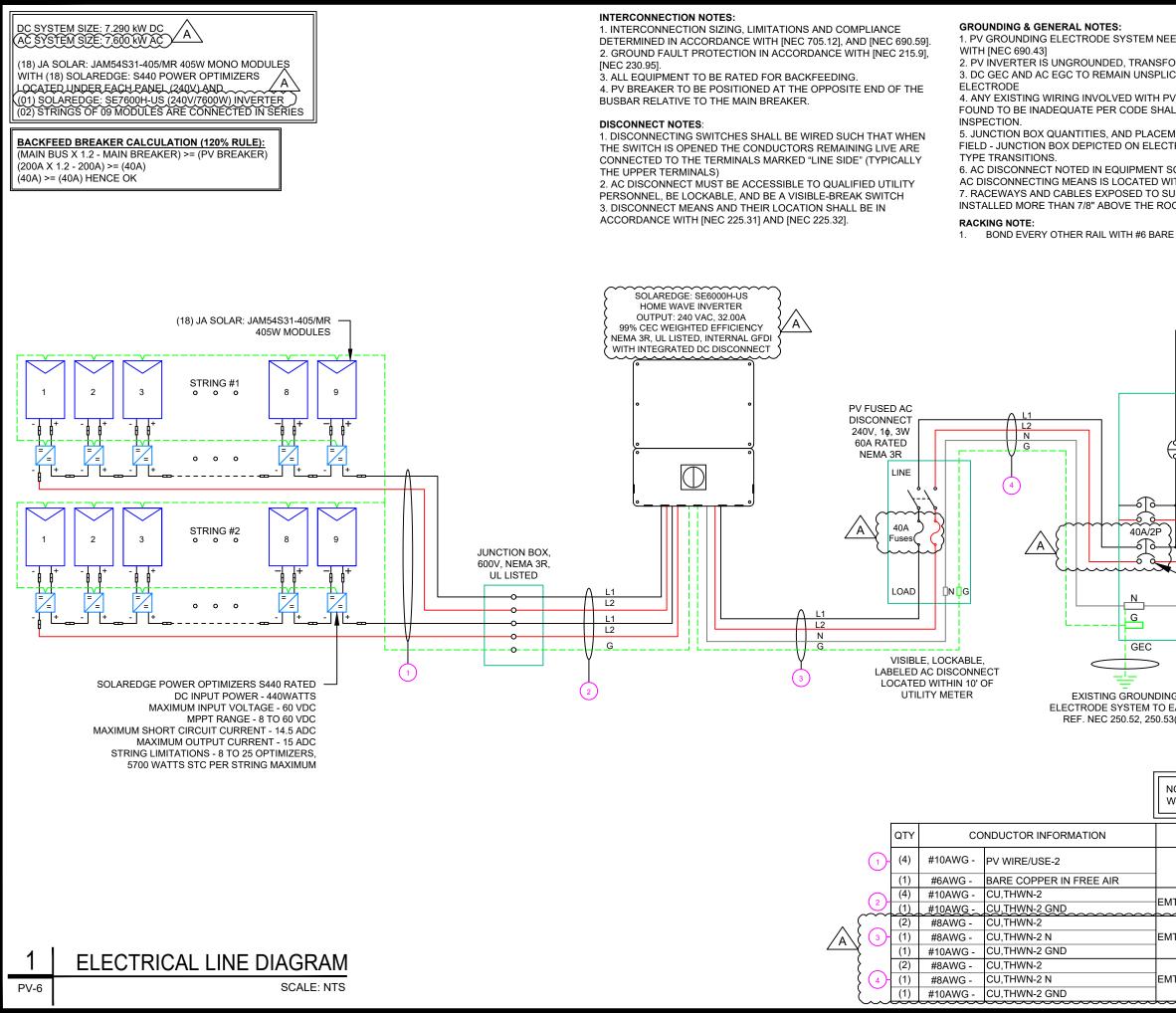
SHEET SIZE

- VENT, ATTIC FAN (ROOF OBSTRUCTION)

- ROOF ATTACHMENT



	TOP TIER SOLAR S TOP TIER SOL 1530 CENTER CHARLOT UNITEI	DATE REV 04/01/2025 05/30/2025 A
	STRUCTL 05/30	INEER R JONESUUM
	PROJECT NA	ME & ADDRESS
IP ATTACHMENT	JOSE GONZALEZ RESIDENCE	3059 OLD STAGE RD N, COATS, NC 27521
W/ TH A		WN BY
I OF 1.75"		SR IT NAME
	AN	et size ISI B X 17"
		NUMBER V-5



					-			
IEEDS TO BE INSTALLED IN A FORMER-LESS TYPE.	CCORDANCE	T	DP T	IER				
LICED, OR SPLICED TO EXIST			SOLAR SOLU					
PV SYSTEM CONNECTION TH IALL BE CORRECTED PRIOR		TOP TIE	TOP TIER SOLAR SOLUTIONS					
EMENT SUBJECT TO CHANGE CTRICAL DIAGRAM REPRESE			CENTER PAR IARLOTTE, N UNITED STA	C 28217,	3			
SCHEDULE OPTIONAL IF OT WITHIN 10' OF SERVICE DISC			REVISION	IS				
SUNLIGHT ON ROOFTOPS SH ROOF USING CONDUIT SUPPO				DATE	REV			
RE COPPER			L DESIGN VISION	04/01/2025 05/30/2025	А			
TO UTILITY	′ GRID							
M								
BI-DIRECT UTILITY ME								
120/240V, 1	Ιφ, 3-W							
(E) MAIN BI	REAKER TO							
HÓUSE 240	0V, 200A/2P							
(E) MAIN SE PANEL,SQU	ARE D-QO							
200A RATEI BACK-FEED		PRO	JECT NAME &	ADDRESS				
INTERCONM	NECTION AT							
PER ART. 7		E E		z o –				
BACK-FEED			Ц	521 521				
2017 NEC 70)5.12(B)(2)(3)(b)		Z	СС С 27				
			Ч	3059 OLD STAGE R COATS, NC 2752				
		Ū		TS,				
ING DEARTH		Ш L О r	山 上	OA:				
53(A)		ΠĞ	_	020 026				
				ო				
NOTE: CONDUIT TO BE UL L	ISTED FOR							
WET LOCATIONS AND UV PP	ROTECTED		DRAWN B					
CONDUIT TYPE	CONDUIT SIZE		SHEET NA	ME				
N/A	N/A	ELECTF	ELECTRICAL LINE DIAGRAM					
EMT OR LFMC IN ATTIC	3/4"							
			ANSI 11" X 1					
EMT,LFMC OR PVC	3/4"							
EMT, LFMC OR PVC	3/4"		SHEET NUMBER PV-6					
	l	L						

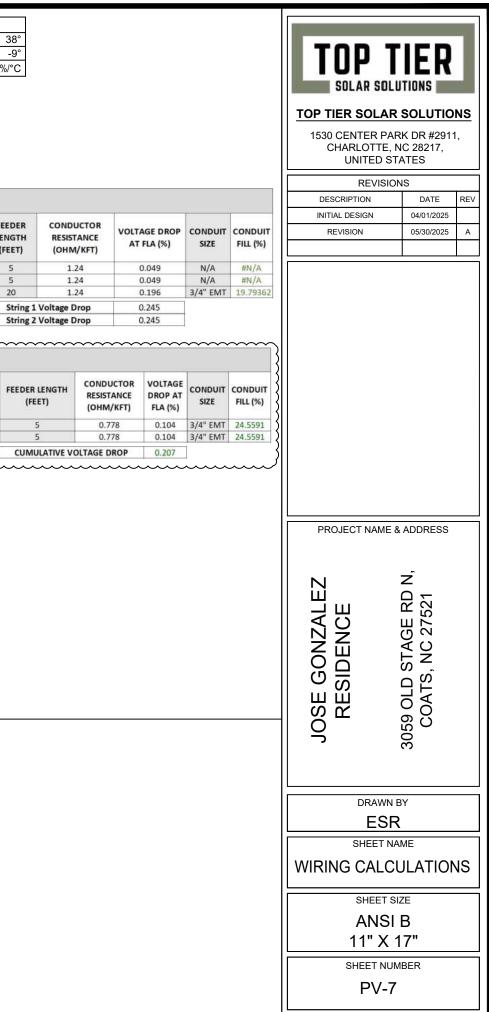
SOLAR	MODULE SPECIFICATIONS			R SPECIFICATIONS		AMBIENT TEMPERATURE SPEC	S
		MANUFACTURER	MANUFACTURER / MODEL #		US (240V/7600W)	AMBIENT TEMP (HIGH TEMP 2%)	
MANUFACTURER / MODEL	# JA SOLAR: JAM54S31-405/MR 405W MODULE			INVERTER		RECORD LOW TEMPERATURE	-9°
		NOMINAL AC POW	/ER	7.600 kW		MODULE TEMPERATURE COEFFICIENT OF Voc	-0.275%/°C
		NOMINAL OUTPUT	VOLTAGE	240 VAC			
VMP	31.21V	NOMINAL OUTPUT	CURRENT	32.00A			
IMP	12.98A				<u></u>	<i>y</i>	
VOC	37.23V	PERCENT OF		ER OF CURRENT			
ISC	13.87A	VALUES	CARRYING	CONDUCTORS IN EMT			
TEMP. COEFF. VOC	-0.275%/°C	.80		4-6			
		.70		7-9]		
MODULE DIMENSION	67.79"L x 44.65"W x 1.18"D (In Inch)	.50		10-20	1		

										DC FEEDE	R CALCULATI	IONS						
CIRCUIT ORIGIN	CIRCUIT	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)	DERATION FACTOR FOR AMBIENT TEMPERATURE NEC 310.15(B)(2)(a)	DERATION FACTOR FOR CONDUCTORS PER RACEWAY NEC 310.15(B)(3)(a)	90°C AMPACITY DERATED (A)	AMPACITY CHECK #2	FEEDER LENGTH (FEET)	CONDUCT RESISTAN (OHM/K
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	20	1.24
																	String 1	Voltage Dro

														Â			2	String 2 Voltage I	rop
	~~~~~~	~~~~	~~~~~	~~~~~	~~~~~	~~~~~~	~~~~~~~	~~~~~~	~~~~~	 AC F			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~			$\sim$
	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 CHECK #2	A REPORT OF THE CONTRACTOR	CO RE (O
INVERTER	AC DISCONNECT	240	32	40	40	CU #8 AWG	CU #10 AWG	CU #8 AWG	50	PASS	38	2	55	0.91	1	50.05	PASS	5	
AC DISCONNECT	POI	240	32	40	40	CU #8 AWG	CU #10 AWG	CU #8 AWG	50	PASS	38	2	55	0.91	1	50.05	PASS	5	
																		CUMULATIVE V	OLTAG

#### ELECTRICAL NOTES

- 1. ALL EQUIPMENT TO BE LISTED BY UL OR OTHER NRTL, AND LABELED FOR ITS APPLICATION.
- 2. ALL CONDUCTORS SHALL BE RATED UPTO 600V FOR RESIDENTIAL AND 1000V FOR COMMERCIAL 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.



#### PHOTOVOLTAIC POWER SOURCE

#### EVERY 10' ON CONDUIT & ENCLOSURES

LABEL- 1: <u>LABEL LOCATION:</u> DC/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:

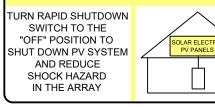
#### BREAKER IS BACKFED DO NOT RELOCATE

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



LABEL - 5: <u>LABEL LOCATION:</u> 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)

AC DISCONNECT PHOTOVOLTAIC SYST POWER SOURCE			
NOMINAL OPERATING AC VOLATGE	240 V		<pre>{</pre>
RATED AC OUTPUT CURRENT	32.00 A		}
LABEL- 9: LABEL LOCATION: AC DISCONNECT CODE REF: NEC 690.54			
	480 V		
MAXIMUM CIRCUIT CURRENT	40.00 A		<pre>}</pre>
MAXIMUM RATED OUTPUT CURRENT OF THE CHARGE CONTROLLER OR DC-TO-DC CONVERTER (IF INSTALLED)			
LABEL- 10: LABEL LOCATION: ON THE RIGHT SIDE OF THE INVERTER CODE REF: NEC 690.53	R (PRE-EXISTIN	IG ON THE INVERTER)	

TOP TIER SOLAR SOLUTIONS         DESCRIPTION         DATE REVISIONS         DESCRIPTION         DATE REVISION         DATE REVISION         DESCRIPTION         DATE REVISION         PROJECT NAME & ADDRESS         N         DISON OF SUBER         DISON OF SUBER         DISON OF SUBER         DISON OF SUBER         DISON OF SUBER <td <="" colspan="2" th=""><th></th><th></th><th></th></td>	<th></th> <th></th> <th></th>				
1530 CENTER PARK DR #2911, CHARLOTTE, NC 28217, UNITED STATES REVISION DATE REV INITIAL DESIGN 04/01/2025 A REVISION 05/30/2025 A REVISION 05/30/2025 A PROJECT NAME & ADDRESS NO JESCRIPTION NUMBER PROJECT NAME & ADDRESS NO JESCRIPTION NUMBER NO JESCRIPTION NUMBER SHEET NAME LABELS SHEET SIZE ANSI B 11" X 17" SHEET NUMBER					
1530 CENTER PARK DR #2911, CHARLOTTE, NC 28217, UNITED STATES REVISION DATE REV INITIAL DESIGN 04/01/2025 A REVISION 05/30/2025 A EVISION 05/30/2025 A PROJECT NAME & ADDRESS NO STATUS PROJECT NAME & ADDRESS NU STATUS NO STA		SOLUTIO	NS		
UNITED STATES REVISIONS DESCRIPTION DATE REV INITIAL DESIGN 04/01/2025 A REVISION 05/30/2025 A DESCRIPTION 05/30/2025 A DESCRIPTION 05/30/2025 A DESCRIPTION 05/30/2025 A DESCRIPTION 05/30/2025 A VILLE NUMBER PROJECT NAME & ADDRESS NO STATES DRAWN BY ESR SHEET NAME LABELS SHEET SIZE ANSI B 11" X 17" SHEET NUMBER					
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DRAWN BY ESR JOSE CONZALEZ JOSE GONZALEZ BORD STAGE RD SHEET NAME LABELS SHEET SIZE ANSI B 11" X 17" SHEET NUMBER	PROJECT NAME &	ADDRESS			
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LABELS SHEET SIZE ANSI B 11" X 17" SHEET NUMBER		ME			
ANSI B 11" X 17" SHEET NUMBER					
SHEET NUMBER	ANSI I	В			
	11" X 1	7"			
		BER			

## Harvest the Sunshine

## DEEP BLUE 3.0 Light

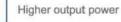


#### Introduction

Mono

Assembled with 11BB PERC cells, the half-cell configuration of the modules offers the advantages of higher power output, better temperature-dependent performance, reduced shading effect on the energy generation, lower risk of hot spot, as well as enhanced tolerance for mechanical loading.

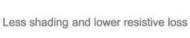












Lower LCOE

m

Better mechanical loading tolerance

#### Superior Warranty

JASOLAR

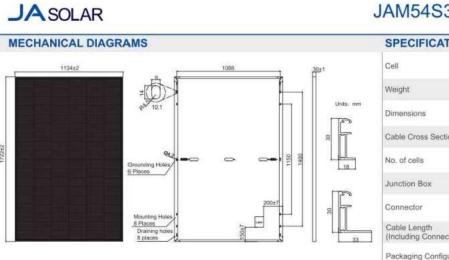


#### **Comprehensive Certificates**

- IEC 61215, IEC 61730, UL 61215, UL 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- · ISO 45001: 2018 Occupational health and safety management systems
- IEC TS 62941: 2016 Terrestrial photovoltaic (PV) modules Guidelines for increased confidence in PV module design qualification and type approval







Remark: customized frame color and cable length available upon request

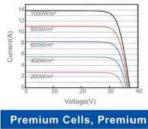
ELECTRICAL PARAMETERS A	T STC					
TYPE	JAM54S31 -380/MR	JAM54S31 -385/MR	JAM54S31 -390/MR	JAM54S31 -395/MR	JAM54S31 -400/MR	JAM54S31 -405/MR
Rated Maximum Power(Pmax) [W]	380	385	390	395	400	405
Open Circuit Voltage(Voc) [V]	36.58	36.71	36.85	36.98	37.07	37.23
Maximum Power Voltage(Vmp) [V]	30.28	30.46	30.64	30.84	31.01	31.21
Short Circuit Current(Isc) [A]	13.44	13.52	13.61	13.70	13.79	13.87
Maximum Power Current(Imp) [A]	12.55	12.64	12.73	12.81	12.90	12.98
Module Efficiency [%]	19.5	19.7	20.0	20.2	20.5	20.7
Power Tolerance			±2%			
Temperature Coefficient of Isc(a_Isc)			+0.045%°C			
Temperature Coefficient of Voc(β_Voc)			-0.275%/°C			
Temperature Coefficient of Pmax(y_Pmp)			-0.350%/°C			
STC		Irradiance 1000	W/m², cell temperatu	ire 25°C, AM1.5G		

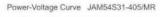
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types

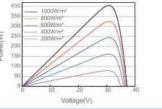
ELECTRICAL PARAM	METERS	AT NOC	Г				OPERATING CONDI	TIONS
TYPE	JAM54S31 -380/MR	JAM54S31 -385/MR	JAM54S31 -390/MR	JAM54S31 -395/MR	JAM54S31 -400/MR	JAM54S31 -405/MR	Maximum System Voltage	1000V/1500V DO
Rated Max Power(Pmax) [W]	286	290	294	298	302	306	Operating Temperature	-40 C -+85 C
Open Circuit Voltage(Voc) [V]	34.36	34.49	34.62	34.75	34.88	35.12	Maximum Series Fuse Rating	25A
Max Power Voltage(Vmp) [V]	28.51	28.68	28.87	29.08	29.26	29.47	Maximum Static Load Front* Maximum Static Load Back*	5400Pa(112lb/ft²) 2400Pa(50lb/ft²)
Short Circuit Current(Isc) [A]	10.75	10.82	10.89	10.96	11.03	11.10	NOCT	45±2 C
Max Power Current(Imp) [A]	10.03	10.11	10.18	10.25	10.32	10.38	Safety Class	Class II
NOCT	Irradian	ce 800W/m².	ambient tem	perature 20°C	.wind speed	1m/s, AM1.5G	Fire Performance	UL Type 1

#### CHARACTERISTICS

Current-Voltage Curve JAM54S31-405/MR





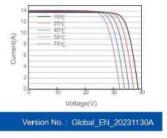


Premium Cells, Premium Modules

31	380-405/MR Series	

TIONS	6
	Mono
	21.5kg±3%
	1722±2mm×1134±2mm×30±1mm
ion Size	4mm ² (IEC) , 12 AWG(UL)
	108(6x18)
	IP68, 3 diodes
	MC4-EVO2(1500V)
ctor)	Portrait: 300mm(+)/400mm(-); Landscape: 1200mm(+)/1200mm(-)
uration	36pcs/Pallet, 864pcs/40ft Container

Current-Voltage Curve JAM54S31-405/MR



TOP TIER SOLAR SOLUTIO

#### TOP TIER SOLAR SOLUTIONS

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

REVISIONS					
DESCRIPTION	DATE	REV			
INITIAL DESIGN	04/01/2025				
REVISION	05/30/2025	А			

PROJECT NAME & ADDRESS

ш JOSE GONZALE RESIDENCE

3059 OLD STAGE RD N, COATS, NC 27521

DRAWN BY

ESR

SHEET NAME EQUIPMENT **SPECIFICATION** 

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

## Intertek Total Quality. Assured.

#### AUTHORIZATION TO MARK

This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing Report. This authorization also applies to multiple listee model(s) identified on the correlation page of the Listing Report.

This document is the property of Intertek Testing Services and is not transferable. The certification mark(s) may be applied only at the location of the Party Authorized To Apply Mark.

Applicant:	Shanghai JA Solar T	echnology Co., Ltd.	Manufacturer:	JA SOLAR VIET NAM COMPANY LIMITED.	
Address:	No. 118, Lane 3111, West Huancheng Road, Fengxian District, 201401 Shanghai		Address:	Lot G, Quang Chau industrial park, Quang Chau Ward, Viet Yen Town, Ba Giang Province, 236110	
Country:	P. R. China		Country:	Vietnam	
Party Author Report Issuii	ized To Apply Mark: ng Office:	Same as Manufactu Intertek Testing Ser		ited	
Control Num	ber: <u>5020189</u>	Authorized by		tthew Snyder/ Certification Manager	
				for the noted Report Number.	
his Authorization to M o the terms and condit if this Authorization to onditions laid out in th writing by Intertek. Initia	ark is for the exclusive use of Intertek ions of the agreement. Intertek assum Max. Only the Clent is authorized to e agreement and in this Authorization al Factory Assessments and Follow up quality control and do not relieve the	's Client and is provided pursuant to the res no liability to any party, other than permit copying or distribution of this A to Mark. Any further use of the Interte Services are for the purpose of assue Client of their obligations in this respense Intertek Testin	the Certification agreement betwee to the Client in accordance with H uthorization to Mark and then on k name for the sele or advertiser ining appropriate usage of the Cer- ct. Ing Services NA Inc.	en Intertek and its Client, Intertek's responsibility and liability are limit the agreement, for any loss, expense or damage occasioned by the u ly in its entirety. Use of Intertek's Cortification mark is restricted to the ment of the tested material, product or service must first be approved filfcation mark in accordance with the agreement, they are not for the	
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## Intertek Total Quality: Assured.

Product:	Crystalline Silicon Photovoltaic modules
Brand Name:	JA SOLAR 晶澳
	JAM72S03-385/PR,
	JAP72S03-340/SC,
	JAM72S10- followed by 395, 400, 405, 410 or 415 followed by /MB,
	JAM60S10- followed by 330, 335, 340 or 345 followed by /MB,
	JAM72S10- followed by 395, 400, 405, 410 or 415 followed by /MR,
	JAM66S10- followed by 365, 365, 370, 375 or 380 followed by /MR,
	JAM60S10- followed by 330, 335, 340 or 345 followed by /MR,
	JAM72S09- followed by 370, 375, 380, 385, 390, 395 or 400 followed by /F
	JAM60S09- followed by 310, 315, 320 or 325 followed by /PR,
	JAM72S09- followed by 375, 380 or 385 followed by /BP, JAM60S09- followed by 315 or 320 followed by /BP,
	JAM72S10- followed by 385, 390, 395 or 400 followed by /BP,
	JAM60S10- followed by 320, 325 or 330 followed by /BP,
	JAM72S10- followed by 380, 385, 390, 395, 400 or 405 followed by /PR,
	JAM60S10- followed by 320, 325, 330 or 335 followed by /PR,
	JAM72S12- followed by 365, 370, 375, 380 or 385 followed by /PR,
	JAM60S12- followed by 305, 310, 315 or 320 followed by /PR,
	1JAM78S10- followed by 435, 440, 445, 450 or 455 followed by /MR,
	1JAM6(K)-72-335/4BB/1500V,
	JAM60S17- followed by 320, 325, or 330 followed by /MR,
	JAM72S20- followed by 430, 435, 440, 445, 450, 455, 460, 465 or 470 followed by 430, 435, 440, 445, 450, 455, 460, 465 or 470 followed by 430, 435, 440, 445, 450, 455, 460, 465 or 470 followed by 430, 435, 440, 445, 450, 455, 460, 465 or 470 followed by 430, 435, 440, 445, 450, 455, 460, 465 or 470 followed by 430, 435, 440, 445, 450, 455, 460, 465 or 470 followed by 430, 435, 440, 445, 450, 455, 460, 465 or 470 followed by 430, 435, 440, 445, 450, 455, 460, 465 or 470 followed by 430, 435, 440, 445, 450, 455, 460, 465 or 470 followed by 430, 435, 440, 445, 450, 455, 460, 465 or 470 followed by 430, 435, 440, 445, 450, 455, 460, 465 or 470 followed by 430, 435, 460, 465 or 470 followed by 430, 435, 460, 465 or 470 followed by 430, 455, 460, 465 or 470 followed by 430, 435, 460, 465 or 470 followed by 430, 455, 460, 465 or 470 followed by 430, 465 or 470 followed by 430, 435, 460, 465 or 470 followed by 430, 455, 460, 465 or 470 followed by 430,
	JAM60S20- followed by 355, 360, 365, 370, 375, 380, 385 or 390 followed
	JAM72S30- followed by 530, 535, 540, 545, 550 or 555 followed by /MR,
	JAM66S30- followed by 490, 495 or 500 followed by /MR, JAM68S11- followed by 355, 360 or 365 followed by /PR,
	JAM68S11- followed by 345, 350, 355, 360 or 365 followed by /PR(B),
	JAM76S11- followed by 395, 400, 405, 410 or 415 followed by /PR(B),
	JAM76S11- followed by 395, 400, 405, 410 or 415 followed by /PR(B)/1000
	JAM78S30-followed by 575, 580, 585, 590, 595, 600, 605 or 610 followed
Models:	JAM72S30-followed by 535, 540, 545, 550, 555 or 560 followed by /GR,
	JAM66S30-followed by 490, 495, 500 or 505 followed by /GR,
	JAM60S30-followed by 445, 450, 455 or 460 followed by /GR,
	JAM54S30-followed by 400, 405, 410, 415 or 420 followed by /GR,
	JAM78S31-followed by 570, 575, 580, 585 or 590 followed by /GR,
	JAM72S31-followed by 530, 535 or 540 followed by /GR,
	JAM66S31-followed by 485, 490 or 495 followed by /GR,
	JAM60S31-followed by 440, 445 or 450 followed by /GR,
	JAM54S31-followed by 395, 400, 405, 410 or 415 followed by /GR, JAM60S31-followed by 430, 435, 440, 445 or 450 followed by /GR/1000V,
	JAM54S31-followed by 390, 395, 400, 405, 410 or 415 followed by /GR/10
	JAM54S30-followed by 400, 405, 410, 415, 420 or 425 followed by /MR,
	JAM72S31-followed by 510, 515, 520, 525, 530, 535, 540 or 545 followed
	JAM54S31-followed by 385, 390, 395, 400 or 405 followed by /MR,
	JAM54S30-followed by 400, 405, 410, 415, 420 or 425 followed by /MR/10
	JAM72S31-followed by 510, 515, 520, 525, 530,535, 540 or 545 followed by
	JAM54S31-followed by 385, 390, 395, 400 or 405 followed by /MR/1000V,
	JAM72S17-followed by 390, 395, 400 or 405 followed by /MR,
	JAM72S17-followed by 390, 395, 400 or 405 followed by /MR/1000V,
	JAM78S30- followed by 580, 585, 590, 595, 600 or 605 followed by /MR, J/
	560, 565, 570, 575, 580 followed by /LR,
	JAM54S30-followed by 415, 420, 425, 430, 435 followed by /LR,
	JAM54S31-followed by 415, 420 followed by /LR, JAM54S30 followed by 385, 390, 395, 400, 405, 410 followed by /MR
	JAM54S30-followed by 385, 390, 395, 400, 405, 410 followed by /MB, JAM54S31-followed by 385, 390, 395, 400, 405 followed by /MB,
	JAM54S31-followed by 385, 390, 395, 400, 405 followed by /MB, JAM54S30-followed by 410, 415, 420, 425 followed by /LB,
	JAM54S30-followed by 410, 415, 420, 425 followed by /LB,
	JAM72S30-followed by 535, 540, 545, 550 followed by /MB,

ATM for Report 190900406SHA-001

Page 11 of 16

ATM Issued: 12-Jun-2024 ED 16.3.15 (1-Jul-2022) Mandatory

Page 12 of 16

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HORIZATION TO MARK	<u>тор -</u>
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by /MR,	Ш
000V.	ISO
by /MR/1000V,	ر
AM72S30-followed by 555,	
ATM Issued: 12-Jun-2024 ED 16.3.15 (1-Jul-2022) Mandatory	

**TOP TIER** SOLAR SOLUTIONS TIER SOLAR SOLUTIONS 530 CENTER PARK DR #2911, CHARLOTTE, NC 28217, UNITED STATES REVISIONS ESCRIPTION DATE REV ITIAL DESIGN 04/01/2025 REVISION 05/30/2025 Α ROJECT NAME & ADDRESS 3059 OLD STAGE RD N, COATS, NC 27521 RESIDENCE DRAWN BY ESR SHEET NAME EQUIPMENT SPECIFICATION SHEET SIZE ANSI B 11" X 17" SHEET NUMBER

## **Residential Power Optimizer**

## For North America

S440 / S500B / S650B



#### PV power optimization at the module level

- I Specifically designed to work with SolarEdge residential inverters
- J 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 wire management and easy assembly using a single bolt
- I Flexible system design for maximum space utilization
- Compatible with bifacial PV modules
- Meets NEC requirements for arc fault protection (AFCI) and Photovoltaic Rapid Shutdown System (PVRSS)

## / Residential Power Optimizer For North America

#### S440 / S500B / S650B

	S440	S500B	S650B	
INPUT				
Rated Input DC Power ⁽¹⁾	440 ⁽²⁾	500 ⁽³⁾	650	W
Absolute Maximum Input Voltage (Voc)	60	125	85	Vdc
MPPT Operating Range	8-60	12.5 - 105	12.5-85	Vdc
Maximum Input Current (Maximum Isc of Connected PV Module) ²⁰	14.5	1	5	Adc
Maximum Input Short Circuit Current ⁽⁴⁾		18.75		Adc
Maximum Efficiency		99.5		%
Weighted Efficiency		98.6		%
Overvoltage Category		1		
OUTPUT DURING OPERATION (POWER OPTIMIZER CO	ONNECTED TO OPERATIN	NG SOLAREDGE INVE	RTER)	
Maximum Output Current		15		Adc
Maximum Output Voltage	60	8	Ö	Vdc
OUTPUT DURING STANDBY (POWER OPTIMIZER DISC	ONNECTED FROM SOLA	REDGE INVERTER OF	INVERTER OFF)	
Safety Output Voltage per Power Optimizer		1 ± 0.1		Vdc
STANDARD COMPLIANCE				
Photovoltaic Rapid Shutdown System	CS	A C22.2#330, NEC 2014 - 20	23	
EMC	FCC Part 15	5 Class B; IEC 61000-6-2; IEC	61000-6-3	
Safety	CSA C22.2#1	07.1; IEC 62109-1 (Class II Safe	ety); UL 1741	
Material		UL 94 V-0, UV Resistant		
RoHS		Yes		
Fire Safety	0	VDE-AR-E 2100-712:2013-05		
INSTALLATION SPECIFICATIONS				
Maximum Allowed System Voltage		1000		Vdc
Dimensions (W x L x H)	129 x 155 x 30 / 5.07 x 6.10 x 1.18	129 x 165 x 45 / 5	i.07 x 6.49 x 1.77	mm / i
Weight	720 / 1.6	790/	1.74	gr/lt
Input Connector		MC4		
Input Wire Length		0.1 / 0.32		m/f
Output Connector		MC4		
Output Wire Length	(+	23, (-) 0.10 / (+) 7.54, (-) 0.3	2	m/f
Operating Temperature Range ⁵⁾		-40 to +85		°C
Protection Rating		IP68 / NEMA6P		
Relative Humidity		0-100		%

(2) For S440 with part number S440-IGM4MRMP, the Rated Input DC Power is 650W, and the Maximum Input Current is 15A.

(3) For installations after Aug 1st, 2024, the Rated input DC Power for \$500B is 650W.

 (4) The Maximum Input Short Circuit Current is adjusted for worst case conditions of ambient temperature, irradiance, bfacial gain, and so on, in accordance with NEC and CSA.
 (5) Power derating is applied for ambient temperatures above +85°C / +185°F for S440, and for ambient temperatures above +75°C / 167°F for S500B and S650B. Refer to the <u>Power Optimizers Temperature</u>. Derating technical note for more details.

PV System Design Using a SolarEdge Inverter®		SolarEdge Home Wave/Hub Single Phase	Three Phase for 208V Grid	Three Phase for 277/480V Grid	
Minimum String Length (Power	S440	8	10	18	
Optimizers)	SS00B, S650B	6	8	14	
Maximum String Length (Power C	Optimizers)	25		507	
Maximum Usable Power Delivered	d per String	5700	6000	12,750	W
	Inverters with Rated AC Power ≤ 5700W	Per the inverter's maximum input DC power ^a	NG ( 7 L / ) 0 H # 2 ( 2 / )		
Maximum Allowed Connected Power per String ^{®Iob}	Inverters with Rated AC Power of 6000W	5700	One string: 7200 Two strings or more: 7800	15.000	W
	Inverters with Rated AC Power ≥ 7600W	6800, only when connected to at least two strings	hen connected to		
Parallel Strings of Different Lengtl	ns or Orientations		Yes		

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

(7) A string with more than 30 optimizers does not meet NEC rapid shutdown requirements, safety voltage will be above the 30V requirement Refer to the <u>Single String Design Guidelines</u> application note for details.
 For the 208V grid, the maximum is permitted only when the difference in connected power between strings is 1,000W or less.

[10] For the 240V or 277/480V grids, the maximum is permitted only when the difference in connected power between strings 2,000W or less.



POWER OPTIMIZER

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TOP TIER

#### TOP TIER SOLAR SOLUTIONS

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

REVISIONS						
DESCRIPTION	DATE	REV				
INITIAL DESIGN	04/01/2025					
REVISION	05/30/2025	А				

PROJECT NAME & ADDRESS

ш JOSE GONZALE RESIDENCE

3059 OLD STAGE RD COATS, NC 27521

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DRAWN BY

ESR

SHEET NAME EQUIPMENT SPECIFICATION

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

## SolarEdge Home Wave Inverter For North America

SE3800H-US / SE5000H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US





#### Optimized installation with HD-Wave technology

- I Specifically designed to work with power optimizers
- Record-breaking 99% weighted efficiency
- Quick and easy inverter commissioning directly from a smartphone using SolarEdge SetApp
- Fixed voltage inverter for longer strings
- Integrated arc fault protection and rapid shutdown for NEC 2014-2023 per articles 690.11 and 690.12

- / UL1741 SA certified, for CPUC Rule 21 grid compliance
- I Small, lightweight, and easy to install both outdoors or indoors
- Built-in module-level monitoring 1
- / Optional: Faster installations with built-in consumption metering (1% accuracy) and production revenue grade metering (0.5% accuracy, ANSI C12.20)

## / SolarEdge Home Wave Inverter For North America

SE3800H-US / SE5000H-US / SE6000H-US/ SE7600H-US / SE10000H-US / SE11400H-US

Applicable to inverters with part number		SEXXXXH-XXXXXBXX4					
	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	Unit
OUTPUT		**					
Rated AC Power Output	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	VA
Maximum AC Power Output	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	VA
AC Output Voltage MinNomMax. (211 - 240 - 264)	1	~	*	×	~	4	Vac
AC Output Voltage MinNomMax. (183 - 208 - 229)	~		~	3	×	~	Vac
AC Frequency (Nominal)			59.3 - 60	- 60,5**			Hz
Maximum Continuous Output Current @240V	16	21	25	32	42	47.5	A
Maximum Continuous Output Current @208V	16		24	5	2	48.5	A
Power Factor			1, Adjustable -	0.85 to 0.85			
GFDI Threshold			1				A
Utility Monitoring, Islanding Protection, Country Configurable Thresholds			Ye	s			
INPUT							
Maximum DC Power @240V	5900	7750	9300	11800	15500	17650	W
Maximum DC Power @208V	5100	191	7750	2	2 2	15500	W
Transformer-less, Ungrounded			Ye	5			
Maximum Input Voltage			48	0			Vdc
Nominal DC Input Voltage			38	0			Vdc
Maximum Input Current @240V ⁽²⁾	10.5	13.5	16.5	20	27	30.5	Add
Maximum Input Current @208V ⁽²⁾	9	э <b>н</b>	13.5	8		27	Add
Max. Input Short Circuit Current			45				Add
Reverse-Polarity Protection			Ye	s			
Ground-Fault Isolation Detection			600k Ser	nsitivity			
Maximum Inverter Efficiency			99.	2			%
CEC Weighted Efficiency			99			99 @ 240V 98 5 @ 208V	%
Nighttime Power Consumption			< 2	5			W

For other regional settings please contact SolarEdge support.
 A higher current source may be used; the inverter will limit its input current to the values stated



INVERTERS

solaredge.com

Image: Color of the solar solutions         DOP THER SOLAR SOLUTIONS         ISO CENTER PARK DR #2911, CHARLOTTE, NC 28217, UNITED STATES         REVISIONS         DESCRIPTION DATE REVISION         DATE REVISION         DESCRIPTION         DESCRIPTION         DESCRIPTION         DATE REVISION         DATE REVISION         DATE REVISION         DATE REVISION         DATE REVISION         DATE REVISION         DATE REVISION </th <th></th> <th></th> <th></th> <th></th>				
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## / SolarEdge Home Wave Inverter For North America

SE3800H-US / SE5000H-US / SE6000H-US/

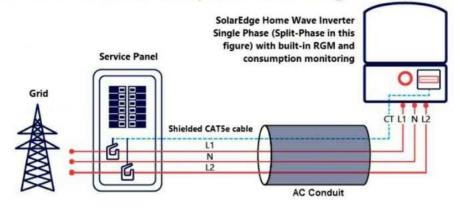
SE7600H-US / SE10000H-US / SE11400H-US

Applicable to inverters with part number		s	SEXXXXH-XXXXBXX4 SE11400H- XXXXXBXX5				
	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	
ADDITIONAL FEATURES							
Supported Communication Interfaces	F	15485, Ethernet, Zig		less SolarEdge Hom Cellular (optional)	ne Network (optional)	B)_	
Revenue Grade Metering, ANSI C12.20			Opt	ional ⁽⁴⁾			
Consumption Metering			- 40				
Inverter Commissioning	With	the SetApp mobile	application using B	uilt-in Wi-Fi Access	Point for Local Conn	ection	
Rapid Shutdown - NEC 2014-2023 per articles 690.11 and 690.12		Automatic Rapid Shutdown upon AC Grid Disconnect					
STANDARD COMPLIANCE							
Safety	UL174	UL1741, UL1741 SA, UL1741 SB, UL1699B, CSA C22.2, Canadian AFCI according to T.I.L M-07					
Grid Connection Standards		IEEE1547-2018, Rule 21, Rule 14 (HI), CSA C22.3 No. 9					Ľ.
Emissions		FCC Part 15 Class B					
INSTALLATION SPECIFICATION	S						
AC Output Conduit Size / AWG Range		1" Maximum	/ 14 – 6 AWG		1" Maximum	/14-4AWG	
DC Input Conduit Size / # of Strings / AWG Range	1	1" Maximum / 1 – 2 strings / 14 – 6 AWG 1 – 3 strings / 14 – 6 AWG					
Dimensions with Safety Switch (H x W x D)	17.7 x 14.6 x 6.8 / 450 x 370 x 174         21.06 x 14.6 x         21.05 x 14.6 x 8.2           185         208%			in / mn			
Weight with Safety Switch	22 / 10	25.1 / 11.4	26.2 /	/ 11.9	38,8 / 17.6	44.9 / 20.4 ⁽⁵⁾	lb / kg
Noise	<25 <50						dBA
Cooling	Natural Convection						
Operating Temperature Range			-40 to +140	/ -40 to +60%			*F / *C
Protection Rating			NEMA 4X (Inverte	r with Safety Switch	)		

(3) For more information, refer to the <u>Solar Edge Home Network</u> datasheet (4) Inverter with Revenue Grade Production and Consumption Meter P/N: SExcoxH-US000BEI4. For consumption metering, current transformers should be ordered separately: SEACT0750-200NA-20 or SEACT0750-400NA-20. 20 units per box.

(5) SE11400H-USxxxBx45 is the updated PN, though SE11400H-USxxxBxx4 will still be available. All specifications are similar for both models. EXCLUDING the weight and dimensions [HxWbD]. The weight and dimensions of SE11400H-USxxxBxx4 are 17.6 [kg] and 2106-14.6-7.3 / 535-370-185 [in/mm], accordingly.
 (6) Full power up to at least 50°C / 122°F; for power de-rating information refer to the <u>Temperature De-rating Technical Note for North America</u>.

#### How to Enable Consumption Monitoring



By simply wiring current transformers through the inverter's existing AC conduits and connecting them to the service panel, homeowners will gain full insight into their household energy usage helping them to avoid high electricity bills.

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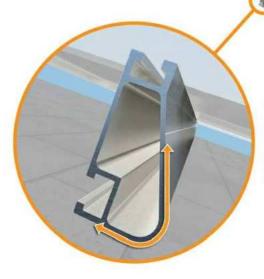


## XR Rail[®] Family

#### 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.



- · Internal splices available
- · Internal splices available

#### **Rail Selection**

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

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

# XR1000

	100	- 744	iet
11112	1 24 8		



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'	
XR 1000			
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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	04/01/2025			
REVISION	05/30/2025	А		

#### **PROJECT NAME & ADDRESS**

Ы JOSE GONZALE RESIDENCE

3059 OLD STAGE RD COATS, NC 27521

Ź

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.

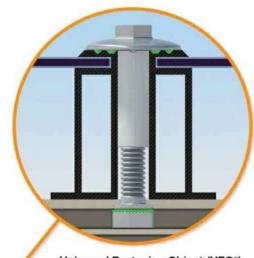
UFO[®] hardware forms secure electrical bonds with both the module and the rail, resulting in many parallel grounding paths throughout the system. This leads to safer and more reliable installations.

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.

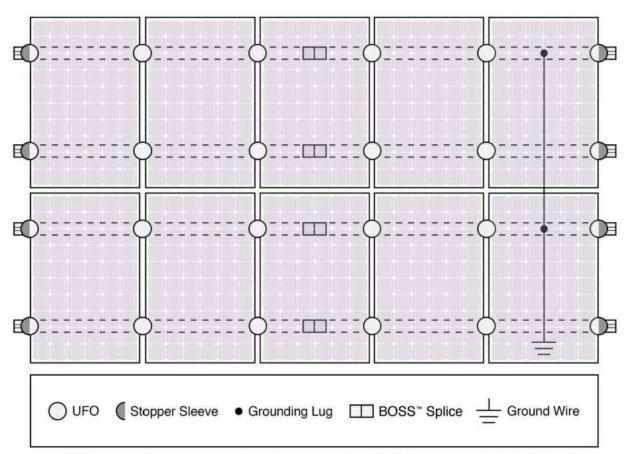
BOSS® Splice Bonded Structural Splice connects rails with built-in bonding teeth. No tools or

hardware needed



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

#### 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

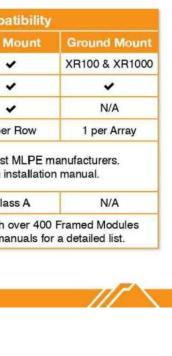
The IronRidge[®] Flush Mount[®], Tilt Mount[®], and Ground Mount Systems have been listed to UL 2703 by Intertek Group plc.

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	Compa
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

#### TOP TIER SOLAR SOLUTIONS

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

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DESCRIPTION	DATE	REV		
INITIAL DESIGN	04/01/2025			
REVISION	05/30/2025	А		

PROJECT NAME & ADDRESS

JOSE GONZALEZ RESIDENCE

3059 OLD STAGE RD N, COATS, NC 27521

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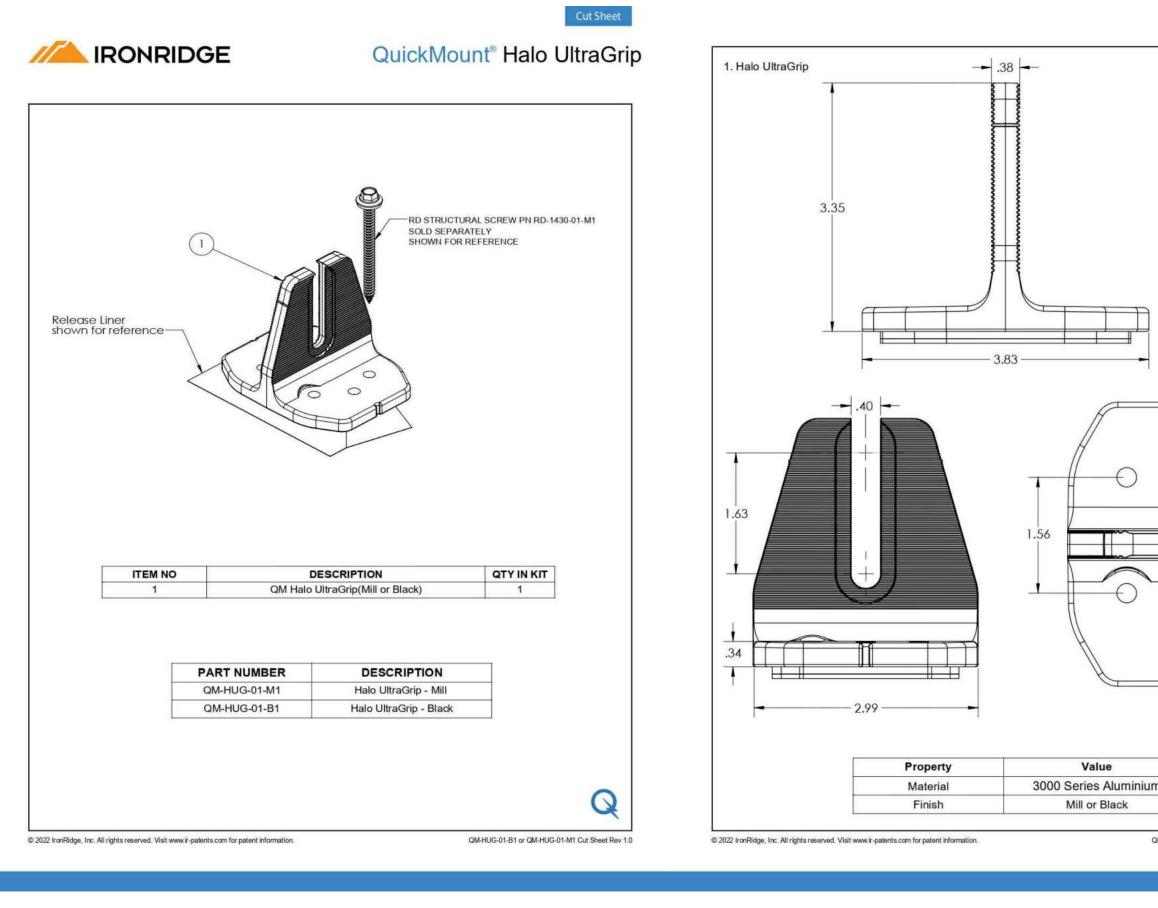
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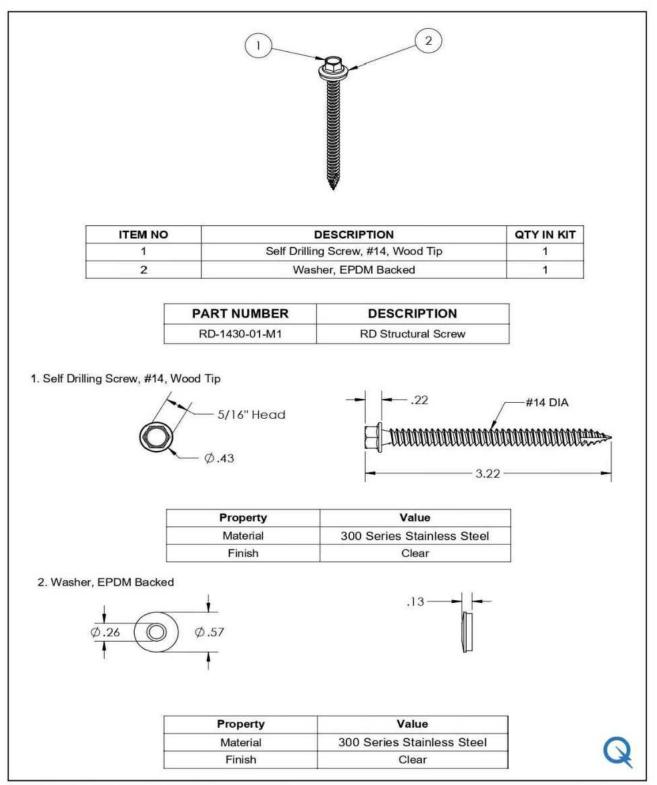
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## **IRONRIDGE** QuickMount[®] RD Structural Screw



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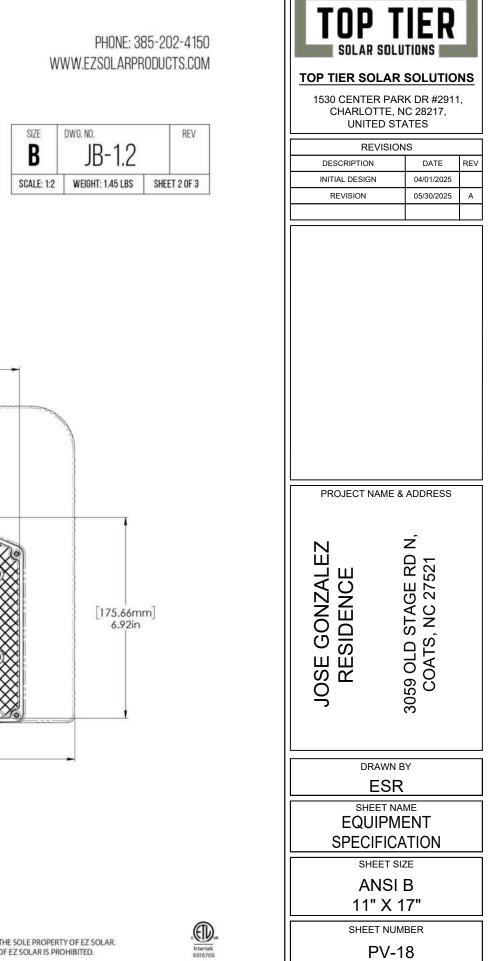


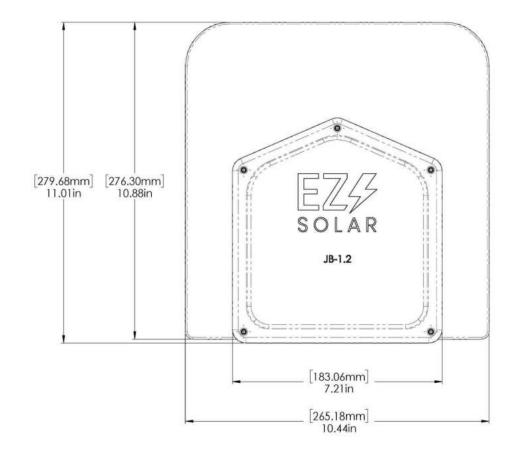
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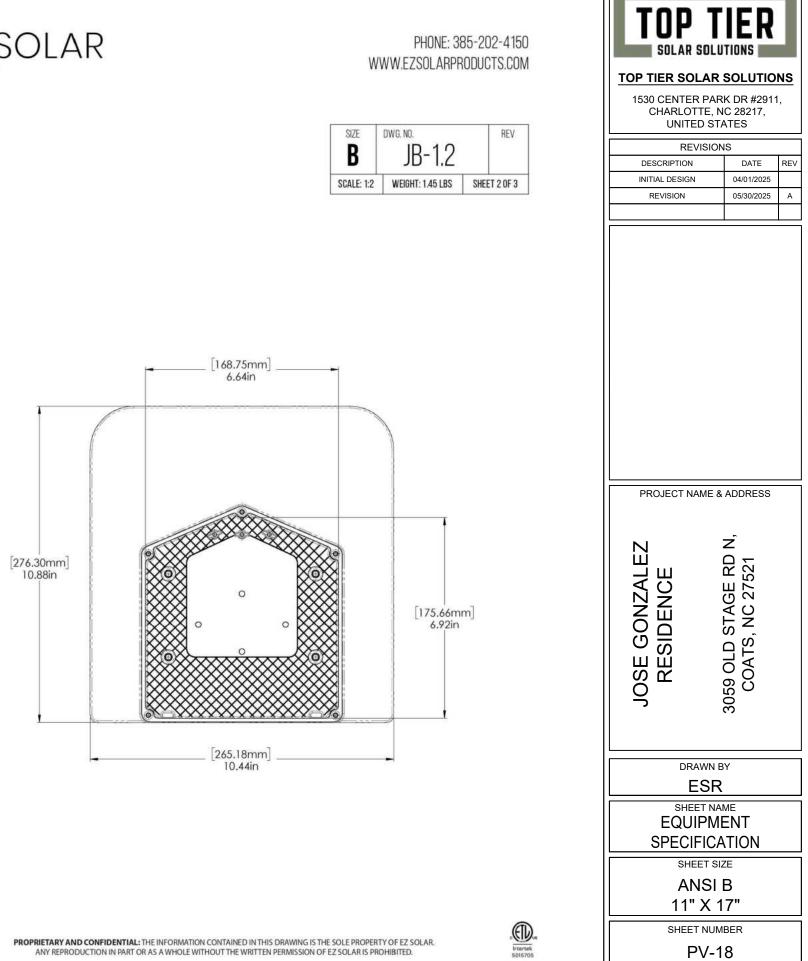


ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	JB-1.2 BODY	POLYCARBONATE WITH UV INHIBITORS	1
2	JB-1.2 LID	POLYCARBONATE WITH UV INHIBITORS	1
3	#10 X 1-1/4" PHILLIPS PAN HEAD SCREW		6
4	#8 X 3/4" PHILLIPS PAN HEAD SCREW		6

size B	dwg, NO.	-1.2	REV
SCALE: 1:2	WEIGHT: 1.45 LBS SHE		SHEET 1 OF 3
TORQUE SPEC	IFICATION:	18	5-20 LBS
CERTIFICATION:		UL 1741, NEMA 3F CSA C22.2 NO. 290	
WEIGHT:		1.45 LBS	







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