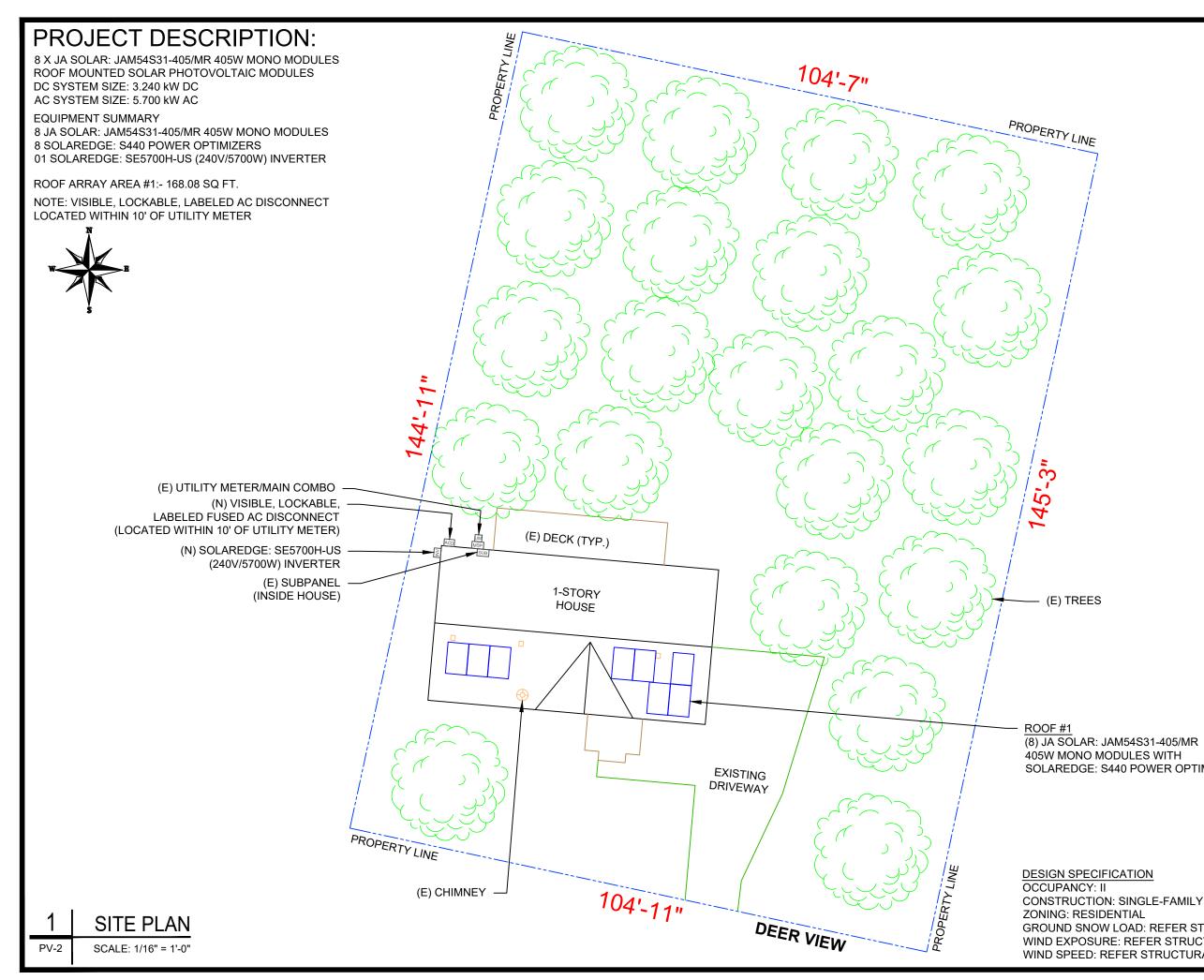
PHOTOVOLTAIC ROOF MOUNT SYSTEM

8 MODULES-ROOF MOUNTED - 3.240 kW DC, 5.700 kW AC

373 DEER VIEW, SANFORD, NC 27332

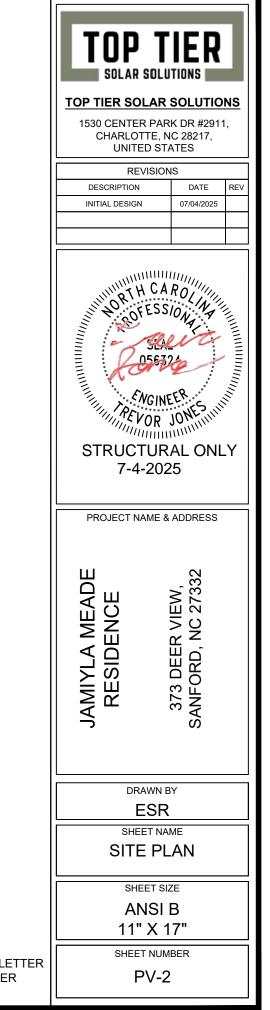
| PROJECT DATA | GENERAL NOTES | VICIN |
|---|---|---|
| PROJECT 373 DEER VIEW, ADDRESS: SANFORD, NC 27332 OWNER: JAMIYLA MEADE DESIGNER: ESR SCOPE: 3.240 kW DC ROOF MOUNT SOLAR PV SYSTEM WITH 8 JA SOLAR: JAM54S31-405/MR 405W PV MODULES WITH | ALL COMPONENTS ARE UL LISTED AND CEC CERTIFIED, WHERE WARRANTED. 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. | 373 D Sanford, Unite |
| 8 SOLAREDGE: S440 POWER OPTIMIZERS 01 SOLAREDGE: SE5700H-US (240V/5700W) INVERTER AUTHORITIES HAVING JURISDICTION: BUILDING: HARNETT COUNTY | A GROUNDING ELECTRODE SYSTEM IN ACCORDANCE WITH CEC 690.47 AND 250.50 THROUGH 60 AND 250-166 SHALL BE PROVIDED. PER NEC GROUNDING ELECTRODE SYSTEM OF EXISTING BUILDING MAY BE USED AND BONDED TO THE SERVICE ENTRANCE. IF EXISTING SYSTEM IS INACCESSIBLE OR INADEQUATE A SUPPLEMENTAL GROUNDING ELECTRODE WILL BE USED AT THE INVERTER LOCATION CONSISTING OF A UL LISTED 8 FT. GROUND 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. | HOUS |
| ZONING: HARNETT COUNTY UTILITY: CENTRAL EMC | PHOTOVOLTAIC MODULES ARE TO BE CONSIDERED NON-COMBUSTIBLE. PHOTOVOLTAIC INSTALLATION WILL NOT OBSTRUCT ANY PLUMBING. MECHANICAL, OR BUILDING ROOF VENTS. ALL WIRING MUST BE PROPERLY SUPPORTED BY DEVICES OR MECHANICAL MEANS DESIGNED AND LISTED FOR SUCH USE. WIRING MUST BE PERMANENTLY AND COMPLETELY HELD OFF THE ROOF SURFACE. | |
| SHEET INDEXPV-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 | |
| 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 CAROLINA 2018 NORTH CAROLINA 2018 NORTH CAROLINA 2017 NATIONAL ELECTR |
| | | |

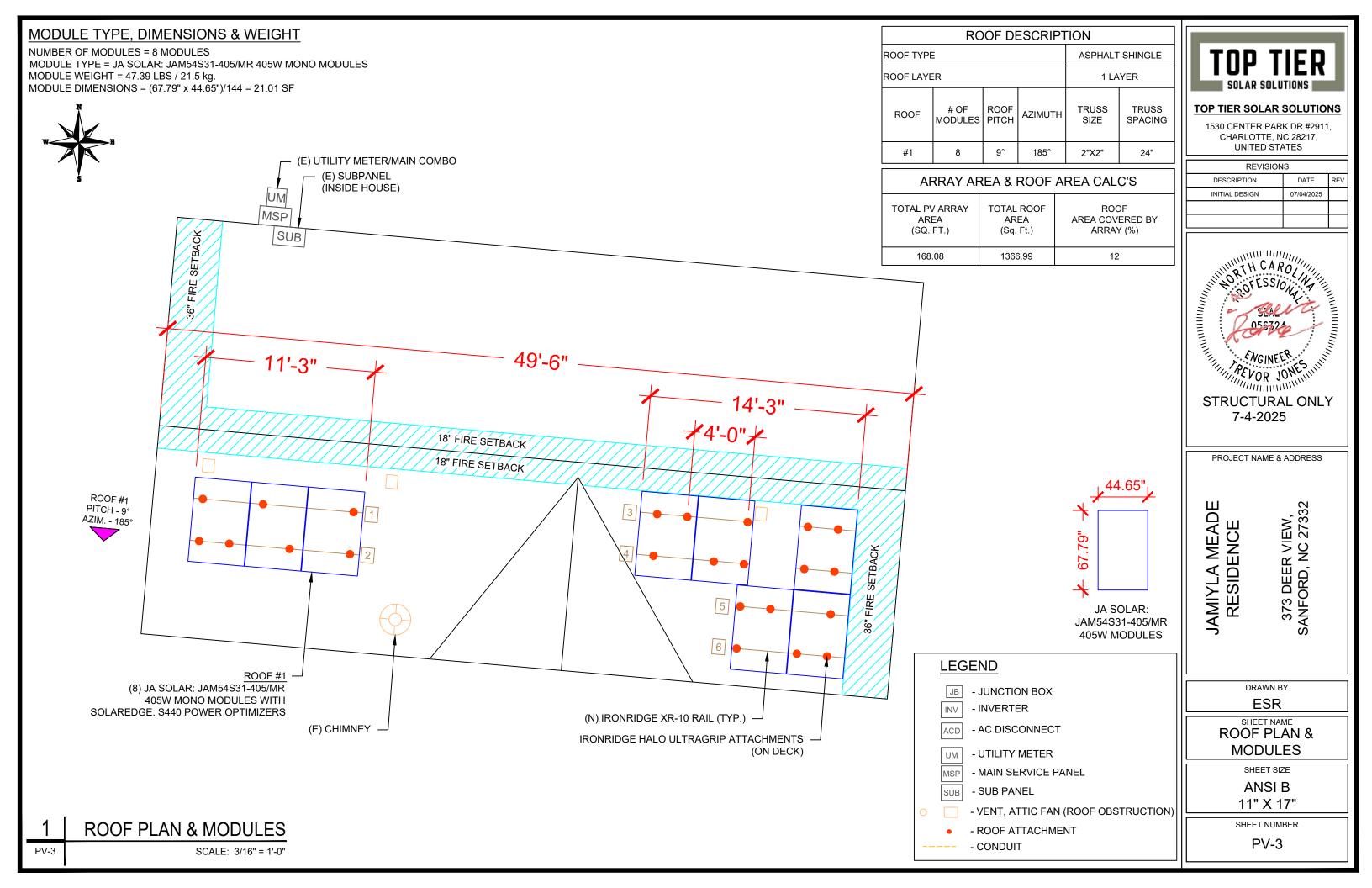


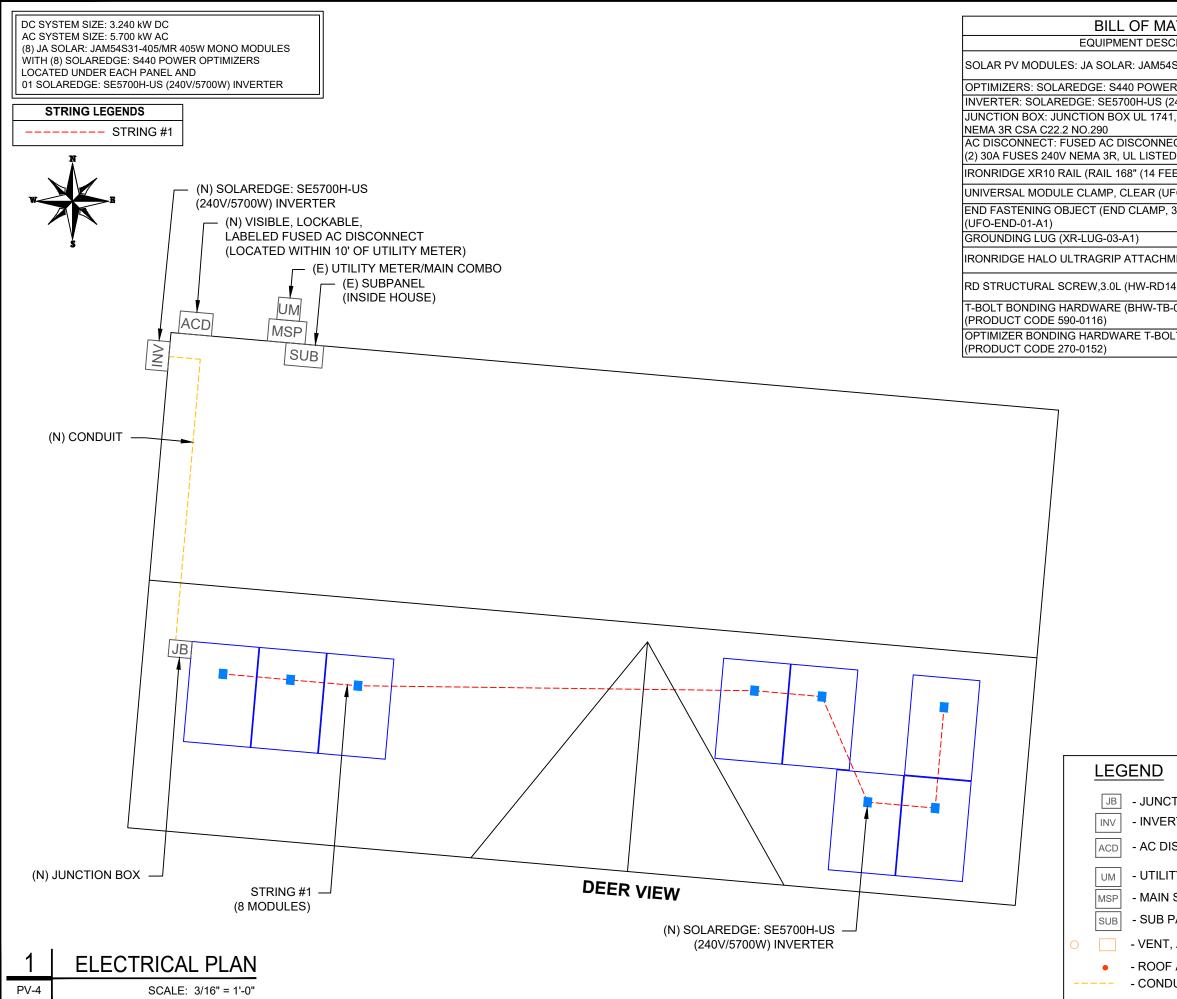


GROUND SNOW LOAD: REFER STRUCTURAL LETTER WIND EXPOSURE: REFER STRUCTURAL LETTER WIND SPEED: REFER STRUCTURAL LETTER

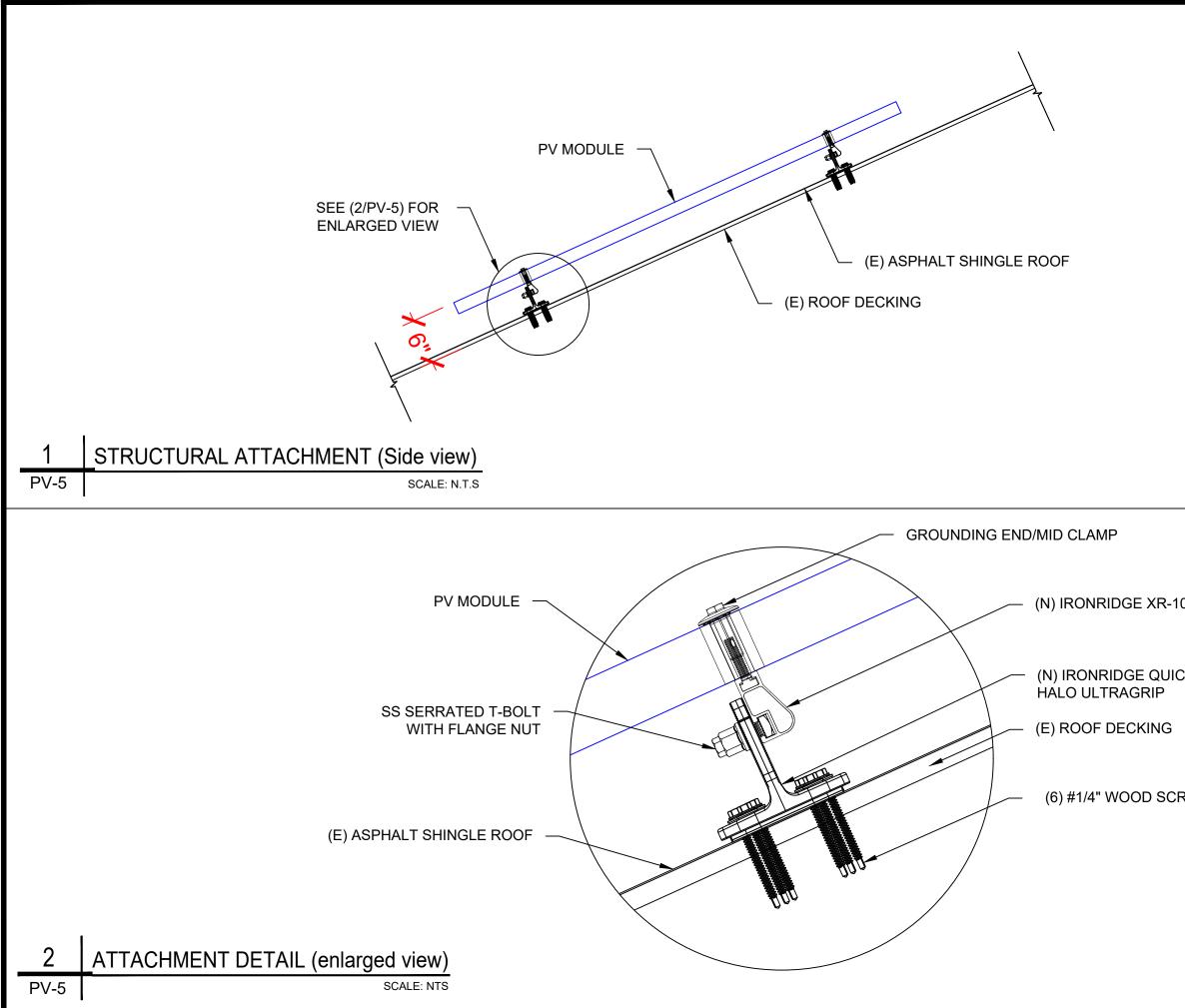
SOLAREDGE: S440 POWER OPTIMIZERS







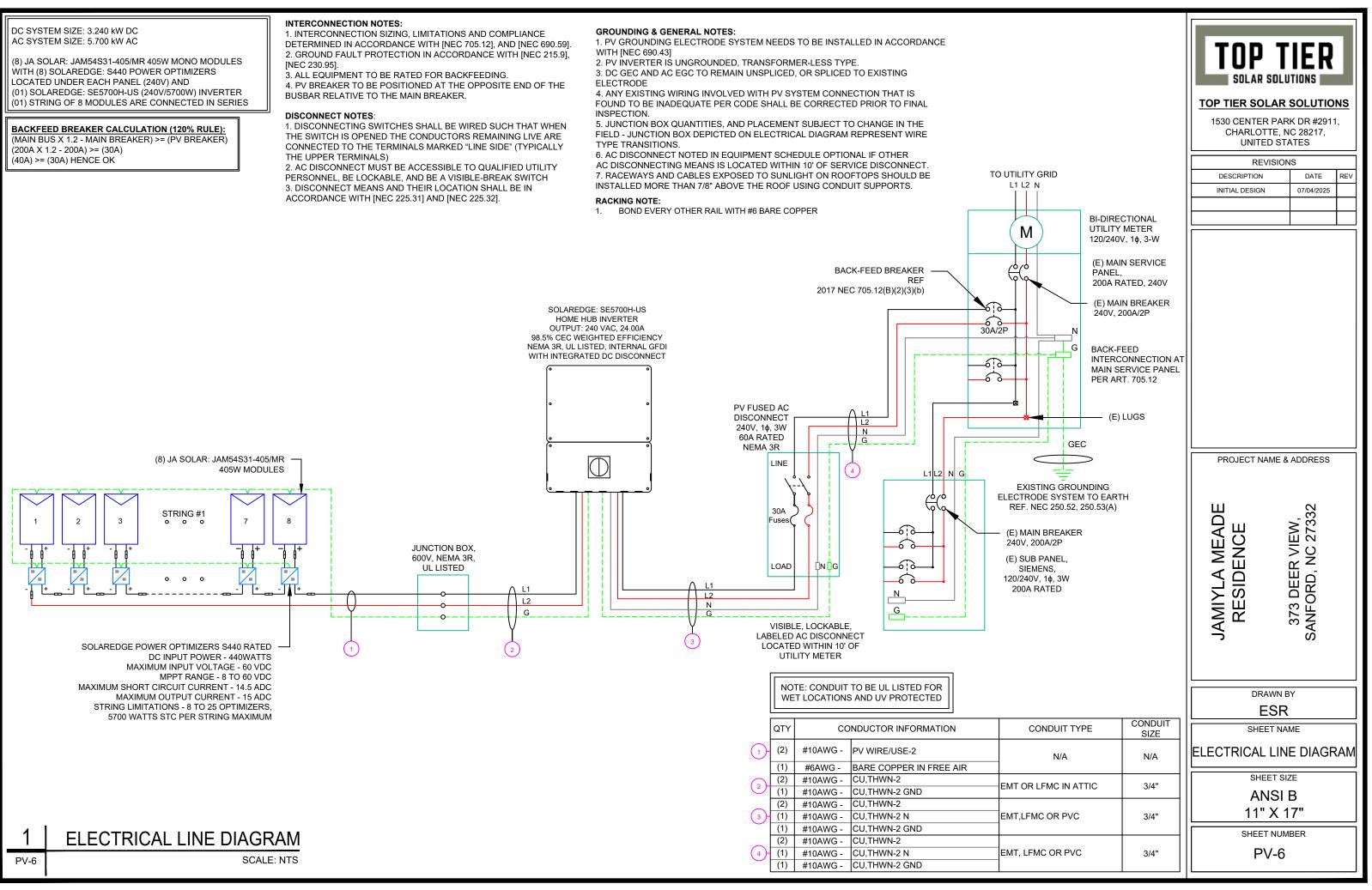
| ATERIALS | | |
|---|---------|--|
| CRIPTION | QTY | TOP TIER |
| 4S31-405/MR 405W MODULE | 8 | SOLAR SOLUTIONS |
| ER OPTIMIZERS (240V/5700W) INVERTER | 8 | |
| 1, | 01 | TOP TIER SOLAR SOLUTIONS |
| ECT, 60A FUSED, | 1 | 1530 CENTER PARK DR #2911, CHARLOTTE, NC 28217, UNITED STATES |
| ED EET) CLEAR) (XR-10-168A) | 7 | |
| JFO-CL-01-A1) | 8 | REVISIONS DESCRIPTION DATE REV |
| , 30-40MM), MILL | | INITIAL DESIGN 07/04/2025 |
| | 16 | |
| MENTS (QM-HUG-01-M1) | 4 23 | |
| 1430-01-M1) | 138 | |
| 3-02-A1) | 23 | |
| DLT (BHW-MI-01-A1) | 8 | |
| | | PROJECT NAME & ADDRESS JAMIYLA MEADE RESIDENCE 373 DEER VIEW, SANFORD, NC 27332 SANFORD, NC 27332 |
| CTION BOX RTER | | DRAWN BY ESR |
| | | SHEET NAME |
| ISCONNECT | | ELECTRICAL PLAN |
| I SERVICE PANEL | | |
| | | SHEET SIZE |
| PANEI | | SHEET SIZE ANSI B |
| | | |
| r, ATTIC FAN (ROOF OBSTRU | JCTION) | ANSI B 11" X 17" |
| F, ATTIC FAN (ROOF OBSTRU F ATTACHMENT | JCTION) | ANSI B 11" X 17" SHEET NUMBER |
| r, ATTIC FAN (ROOF OBSTRU | JCTION) | ANSI B 11" X 17" |



| TOP TIER SOLAR S TOP TIER SOL 1530 CENTER CHARLOT UNITEI | TIER SOLUTIONS AR SOLUTIONS PARK DR #2911, TE, NC 28217, D STATES ISIONS DATE REV 07/04/2025 |
|--|--|
| | CAROLINE SSIONE PR JONESUM JRAL ONLY 2025 |
| JAMIYLA MEADE RESIDENCE | 373 DEER VIEW, SANFORD, NC 27332 |
| E SHEE STRUCTUF SHEE AN 11" | WN BY SR T NAME RAL DETAIL ET SIZE ISI B X 17" NUMBER V-5 |
| | SOLAR S TOP TIER SOL 1530 CENTER CHARLOT UNITED ISOLAR S ISOLAR S ISO |

WITH (8) SOLAREDGE: S440 POWER OPTIMIZERS LOCATED UNDER EACH PANEL (240V) AND (01) SOLAREDGE: SE5700H-US (240V/5700W) INVERTER

(MAIN BUS X 1.2 - MAIN BREAKER) >= (PV BREAKER) (200A X 1.2 - 200A) >= (30A) (40A) >= (30A) HENCE OK



| SOLA | | INVERTE | ER SPECIFICATIONS | AMBIENT TEMPERATURE SPECS | | | |
|------------------|---|------------------------|-------------------|--|--|---|-------------|
| | # JA SOLAR: JAM54S31-405/MR 405W MODULE | MANUFACTURER | MODEL # | SOLAREDGE: SE5700H-US (240V/5700W) INVERTER | | AMBIENT TEMP (HIGH TEMP 2%) RECORD LOW TEMPERATURE | 38° -11° |
| | | | | | | MODULE TEMPERATURE COEFFICIENT OF Voc | -0.275%/°C |
| VMP | 31.21V | NOMINAL OUTPUT VOLTAGE | | 240 VAC 24.00A | | - | |
| IMP | 12.98A | | CORRENT | 24.00A | | | |
| VOC | 37.23V | PERCENT OF | - | BER OF CURRENT | | | |
| ISC | 13.87A | VALUES | CARRYING | | | | |
| TEMP. COEFF. VOC | -0.275%/°C | .80 | .80 4-6 | | | | |
| MODULE DIMENSION | 67.79"L x 44.65"W x 1.18"D (In Inch) | .70 | | 7-9 | | | |
| | 01.13 E x 44.03 W x 1.10 D (in mon) | .50 | | 10-20 | | | |

| | | | | | | | | | DC | FEEDER CAL | CULATIONS | | | | | | | |
|----------------|------------------------|----------------|--------------------------------|-------|------------------|--------------------|----------------|-------------------------|----------------------|-----------------------|--|----------------------|-------------|---|------------------------------|----------------------|----------------------------|--------------------|
| CIRCUIT ORIGIN | CIRCUIT DESTINATION | VOLTAGE (V) | FULL LOAD AMPS "FLA" (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) | CON RESI (OH |
| 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 | |
| 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 | 20 | |
| | | | | | | | | | | | | | | | | | String 1 V | /oltage |

| | 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 #10 AWG | CU #10 AWG | CU #10 AWG | 35 | PASS | 38 | 2 | 40 | 0.91 | 1 | 36.4 | PASS | 5 |
| AC DISCONNECT | POI | 240 | 24 | 30 | 30 | CU #10 AWG | CU #10 AWG | CU #10 AWG | 35 | PASS | 38 | 2 | 40 | 0.91 | 1 | 36.4 | PASS | 5 |

CUMULATI

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.

| CONDUCTOR VOLTAGE | | TOP TIER SOLAR SOL TOP TIER SOLAI 1530 CENTER PA CHARLOTTE, UNITED S REVISIO DESCRIPTION INITIAL DESIGN | UTIONS R SOLUTIONS RK DR #2911, NC 28217, TATES |
|---|------------------------------------|--|---|
| RESISTANCE DROP AT FL | A CONDUIT CONDUIT SIZE FILL (%) | | |
| (OHM/KFT) (%) | | | |
| 1.24 0.049 | N/A #N/A | | |
| 1.24 0.196 Itage Drop 0.245 | 3/4" EMT 11.88% | | |
| | | | |
| | | | |
| | GE | | |
| RESISTANCE DROP | AT SIZE FILL (%) | | |
| (OHM/KFT) FLA (1.24 0.12 | %) | | |
| 1.24 0.12 | | | |
| IVE VOLTAGE DROP 0.24 | 8 | | |
| | | | |
| | | | |
| | | PROJECT NAME | & ADDRESS |
| | | | |
| | | JAMIYLA MEADE RESIDENCE | 373 DEER VIEW, SANFORD, NC 27332 |
| | | | |
| | | DRAWN | |
| | | ESI | |
| | | | |
| | | SHEET | SIZE |
| | | ANS | |
| | | 11" X | |
| | | SHEET NU | |
| | | PV-7 | |
| | | | |

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

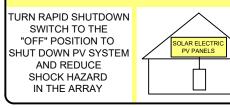
LABEL-4: <u>LABEL LOCATION:</u> MAIN SERVICE PANEL CODE REF: NEC 705.12(C) & NEC 690.59



LABEL- 5:

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 T | וכם 📕 | | | | | | |
|--|------------------------------------|--|--|--|--|--|--|
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| SOLAR SOLI | JTIONS | | | | | | |
| TOP TIER SOLAR | SOLUTIONS | | | | | | |
| 1530 CENTER PAR | | | | | | | |
| CHARLOTTE, N | NC 28217, | | | | | | |
| UNITED ST | ATES | | | | | | |
| REVISIO | | | | | | | |
| INITIAL DESIGN | DATE REV 07/04/2025 | | | | | | |
| | 01104/2023 | | | | | | |
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| PROJECT NAME 8 | ADDRESS | | | | | | |
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| JAMIYLA MEAD RESIDENCE | | | | | | | |
| ≥ 22 | 31 N | | | | | | |
| 二 | 373 DEER VIEW, SANFORD, NC 2733 | | | | | | |
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| DRAWN E | | | | | | | |
| ESR | | | | | | | |
| SHEET NA | ME | | | | | | |
| LABEL | | | | | | | |
| | 3 | | | | | | |
| SHEET SI | ZE | | | | | | |
| ANSI | | | | | | | |
| 11" X 1 | | | | | | | |
| | 17 | | | | | | |
| SHEET NUM | 1BER | | | | | | |
| PV-8 | | | | | | | |
| | | | | | | | |

Harvest the Sunshine

Platestar (Cartantan)

DEEP BLUE 3.0 Light

405W MBB Half-cell Black Module JAM54S31 380-405/MR Series

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.

~ Higher output power



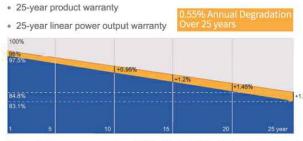




-m Better mechanical loading tolerance

Lower LCOE

Superior Warranty



New linear power warranty Standard module linear power warranty

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



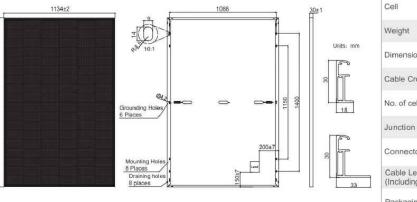


www.jasolar.con Specifications subject to technical changes and tests JA Solar reserves the right of final interpretation



JASOLAR





Remark: customized frame color and cable length available upon request

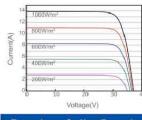
| ELECTRICAL PARAMETERS A | T STC | | | | | |
|---|---------------------|---------------------|-----------------------|---------------------|---------------------|---------------------|
| ТҮРЕ | JAM54S31 -380/MR | JAM54S31 -385/MR | JAM54S31 -390/MR | JAM54S31 -395/MR | JAM54S31 -400/MR | JAM54S31 -405/MR |
| 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 $Voc(\beta_Voc)$ | | | -0.275%/°C | | | |
| Temperature Coefficient of Pmax(y_Pmp) | | | -0.350%/°C | | | |
| STC | | Irradiance 1000 |)W/m², cell temperatu | re 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.

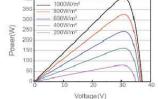
| ELECTRICAL PARA | METERS | AT NOC | Т | | | | OP |
|--------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------|
| ТҮРЕ | JAM54S31 -380/MR | JAM54S31 -385/MR | JAM54S31 -390/MR | JAM54S31 -395/MR | JAM54S31 -400/MR | JAM54S31 -405/MR | Max |
| Rated Max Power(Pmax) [W] | 286 | 290 | 294 | 298 | 302 | 306 | Oper |
| Open Circuit Voltage(Voc) [V] | 34.36 | 34.49 | 34.62 | 34.75 | 34.88 | 35.12 | Maxi |
| Max Power Voltage(Vmp) [V] | 28.51 | 28.68 | 28.87 | 29.08 | 29.26 | 29.47 | Maxi |
| Short Circuit Current(Isc) [A] | 10.75 | 10.82 | 10.89 | 10.96 | 11.03 | 11.10 | NOC |
| Max Power Current(Imp) [A] | 10.03 | 10.11 | 10.18 | 10.25 | 10.32 | 10.38 | Safe |
| NOCT | Irradian | ce 800W/m², | ambient tem | perature 20°0 | ,wind speed | 1m/s, AM1.5G | Fire |

CHARACTERISTICS

Current-Voltage Curve JAM54S31-405/MR



Power-Voltage Curve JAM54S31-405/MR



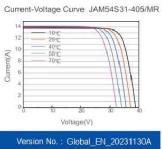
Premium Cells, Premium Modules

JAM54S31 380-405/MR Series

SPECIFICATIONS

| Cell | Mono |
|---------------------------------------|--|
| Weight | 21.5kg±3% |
| Dimensions | 1722±2mm×1134±2mm×30±1mm |
| Cable Cross Section Size | 4mm² (IEC) , 12 AWG(UL) |
| No. of cells | 108(6x18) |
| Junction Box | IP68, 3 diodes |
| Connector | MC4-EVO2(1500V) |
| Cable Length (Including Connector) | Portrait: 300mm(+)/400mm(-); Landscape: 1200mm(+)/1200mm(-) |
| Packaging Configuration | 36pcs/Pallet, 864pcs/40ft Container |

PERATING CONDITIONS 1000V/1500V DC ximum System Voltage erating Temperature -40 C ~+85 C ximum Series Fuse Rating 25A 5400Pa(112lb/ft²) 2400Pa(50lb/ft²) ximum Static Load Front* ximum Static Load Back* DCT 45±2 C fety Class Class II e Performance UL Type 1



TOP TIER SOLAR SOLUTION

TOP TIER SOLAR SOLUTIONS

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

| REVISIONS | | | |
|----------------|------------|-----|--|
| DESCRIPTION | DATE | REV | |
| INITIAL DESIGN | 07/04/2025 | | |
| | | | |
| | | | |

PROJECT NAME & ADDRESS

JAMIYLA MEADE RESIDENCE

373 DEER VIEW, SANFORD, NC 27332

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, Road, Fengxian Distr Shanghai | | Address: | Lot G, Quang Chau industrial park, Quang Chau Ward, Viet Yen Town, Bac Giang Province, 236110 |
| Country: | P. R. China | | Country: | Vietnam |
| Party Author Report Issui | ized To Apply Mark: ng Office: | Same as Manufactu Intertek Testing Serv | | nited |
| Control Num | ber: <u>5020189</u> | Authorized by | | tthew Snyder, Certification Manager |
| This Authorization to M | | | | for the noted Report Number. |
| to the terms and condit of this Authorization to conditions laid out in th writing by Intertek. Initia | ark is for the exclusive use of Intertek's ions of the agreement. Intertek assum Mark. Only the Client is authorized to p 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 th es no liability to any party, other than 1 memit copying or distribution of this At to Mark. Any further use of the Intertel Services are for the purpose of assur Client of their obligations in this respect Intertek Testing | the Certification agreement betwee to the Cilent in accordance with hut uthorization to Mark and then on k name for the sale or advertiser ing appropriate usage of the Ce ct. g Services NA Inc. | een Intertek and its Client. Intertek's responsibility and liability are limit the agreement, for any loss, expense or damage occasioned by the u by in its entirety. Use of Intertek's Certification mark is restricted to the ment of the tested material, product or service must first be approved i rtification mark in accordance with the agreement, they are not for the |
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Intertek Total Quality. Assured.

AUTH

| Product: Crysta | Iline Silicon Photovoltaic modules |
|-------------------|--|
| Brand Name: JA SC | LAR 晶澳 |
| | 2S03-385/PR, |
| | 203-340/SC, 2510, followed by 295, 400, 405, 410 or 415 followed by /MP |
| | 2S10- followed by 395, 400, 405, 410 or 415 followed by /MB, DS10- followed by 330, 335, 340 or 345 followed by /MB, |
| | 2S10- followed by 395, 400, 405, 410 or 415 followed by /MR, |
| | 6S10- followed by 365, 365, 370, 375 or 380 followed by /MR, |
| | 0S10- followed by 330, 335, 340 or 345 followed by /MR, |
| JAM7 | 2S09- followed by 370, 375, 380, 385, 390, 395 or 400 followed by /P |
| | 0S09- followed by 310, 315, 320 or 325 followed by /PR, |
| | 2S09- followed by 375, 380 or 385 followed by /BP, |
| | 0S09- followed by 315 or 320 followed by /BP, |
| | 2S10- followed by 385, 390, 395 or 400 followed by /BP, DS10- followed by 320, 325 or 330 followed by /BP, |
| | 2S10- followed by 380, 385, 390, 395, 400 or 405 followed by /PR, |
| | DS10- followed by 320, 325, 330 or 335 followed by /PR, |
| | 2S12- followed by 365, 370, 375, 380 or 385 followed by /PR, |
| JAM6 | DS12- followed by 305, 310, 315 or 320 followed by /PR, |
| 1JAM | 78S10- followed by 435, 440, 445, 450 or 455 followed by /MR, |
| | 6(K)-72-335/4BB/1500V, |
| | DS17- followed by 320, 325, or 330 followed by /MR, |
| | 2S20- followed by 430, 435, 440, 445, 450, 455, 460, 465 or 470 follo |
| | DS20- followed by 355, 360, 365, 370, 375, 380, 385 or 390 followed 2S30- followed by 530, 535, 540, 545, 550 or 555 followed by /MR, |
| | SS30- followed by 490, 495 or 500 followed by /MR, |
| | 3S11- followed by 355, 360 or 365 followed by /PR, |
| | 3S11- followed by 345, 350, 355, 360 or 365 followed by /PR(B), |
| JAM7 | SS11- followed by 395, 400, 405, 410 or 415 followed by /PR(B), |
| | SS11- followed by 395, 400, 405, 410 or 415 followed by /PR(B)/1000 |
| MODAIS | 3S30-followed by 575, 580, 585, 590, 595, 600, 605 or 610 followed b |
| JAM7 | 2S30-followed by 535, 540, 545, 550, 555 or 560 followed by /GR, |
| | 6S30-followed by 490, 495, 500 or 505 followed by /GR, 0S30-followed by 445, 450, 455 or 460 followed by /GR, |
| | 4S30-followed by 445, 450, 455 of 480 followed by /GR, |
| | 3S31-followed by 570, 575, 580, 585 or 590 followed by /GR, |
| | 2S31-followed by 530, 535 or 540 followed by /GR, |
| JAM6 | SS31-followed by 485, 490 or 495 followed by /GR, |
| | DS31-followed by 440, 445 or 450 followed by /GR, |
| | 4S31-followed by 395, 400 , 405, 410 or 415 followed by /GR, |
| | 0S31-followed by 430, 435, 440, 445 or 450 followed by /GR/1000V, |
| | 4S31-followed by 390, 395, 400, 405, 410 or 415 followed by /GR/100 4S30-followed by 400, 405, 410, 415, 420 or 425 followed by /MR, |
| | 2S31-followed by 400, 403, 410, 413, 420 of 423 followed by finit, 2S31-followed by 510, 515, 520, 525, 530, 535, 540 or 545 followed b |
| | 4S31-followed by 385, 390, 395, 400 or 405 followed by /MR, |
| | 4S30-followed by 400, 405, 410, 415, 420 or 425 followed by /MR/10 |
| JAM7 | 2S31-followed by 510, 515, 520, 525, 530,535, 540 or 545 followed b |
| | 4S31-followed by 385, 390, 395, 400 or 405 followed by /MR/1000V, |
| | 2S17-followed by 390, 395, 400 or 405 followed by /MR, |
| | 2S17-followed by 390, 395, 400 or 405 followed by /MR/1000V, |
| | 3S30- followed by 580, 585, 590, 595, 600 or 605 followed by /MR,JA |
| | 65, 570, 575, 580 followed by /LR, 4S30-followed by 415, 420, 425, 430, 435 followed by /LR, |
| | 4S30-followed by 415, 420, 425, 430, 435 followed by /LR, 4S31-followed by 415, 420 followed by /LR, |
| | 4S30-followed by 413, 420 followed by /ER, |
| | 4S31-followed by 385, 390, 395, 400, 405 followed by /MB, |
| | 4S30-followed by 410, 415, 420, 425 followed by /LB, |
| JAM5 | 4S31-followed by 410, 415 followed by /LB |
| | 2S30-followed by 535, 540, 545, 550 followed by /MB, |
| JAM7 | 2S31-followed by 525, 530, 535, 540 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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| REVISION | IS | Ĩ |
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| INITIAL DESIGN | 07/04/2025 | |
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| PROJECT NAME & | ADDRESS | |
| JAMIYLA MEADE RESIDENCE | 373 DEER VIEW, SANFORD, NC 27332 | |
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Residential Power Optimizer

For North America

S440 / S500B / S650B



POWER OPTIMIZER

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

- *I* Faster installations with simplified wire management and easy assembly using a single bolt
- 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 ¹¹ | 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) ⁽²⁾ | 14.5 | 15 | 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 | 0 | Vdc |
| OUTPUT DURING STANDBY (POWER OPTIMIZER DISC | ONNECTED FROM SOLA | REDGE INVERTER OF | R 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 - 202 | 23 | |
| EMC | FCC Part 15 | Class B; IEC 61000-6-2; IEC | 61000-6-3 | |
| Safety | CSA C22.2#107.1; IEC 62109-1 (Class II Safety); UL 1741 | | | |
| Material | | UL 94 V-0, UV Resistant | | |
| RoHS | | Yes | | |
| Fire Safety | | VDE-AR-E 2100-712:2013-05 | | |
| INSTALLATION SPECIFICATIONS | | | | 100 |
| 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 | 5.07 x 6.49 x 1.77 | mm / i |
| Weight | 720 / 1.6 | 790 / | 1.74 | gr / lb |
| Input Connector | | MC4 | | |
| Input Wire Length | | 0.1 / 0.32 | | m/f |
| Output Connector | | MC4 | | |
| Output Wire Length | (+) | 2.3, (-) 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 | | | |

Rated power of the module at STC will not exceed the power optimizer Rated input DC Power. Modules with up to +5% power tolerance are allowed.
 For S440 with part number S440-1GM4MRMP, the Rated input DC Power is 650W, and the Maximum Input Current is 1SA.

(3) For installations after Aug 1st, 2024, the Rated Input DC Power for S500B is 650W.

(4) The Maximum Input Short Circuit Current is adjusted for worst case conditions of ambient temperature, irradiance, bifacial 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 5650B. Refer to the Power Optimizers Temperature. 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) | S500B, S650B | 6 | 8 | 14 | |
| Maximum String Length (Power (| Optimizers) | 25 | | 50(7) | |
| Maximum Usable Power Delivere | d per String | 5700 | 6000 | 12,750 | |
| | Inverters with Rated AC Power ≤ 5700W | Per the inverter's maximum input DC power ^a | | | |
| Maximum Allowed Connected Power per String ⁽⁹⁾⁰⁰ | 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 | | | |
| Parallel Strings of Different Lengt | hs 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.



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TOP TI IFR

TOP TIER SOLAR SOLUTIONS

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

| REVISIONS | | | | |
|----------------------------|--------|-------------------------------------|-----|--|
| DESCRIPTION | | DATE | REV | |
| INITIAL DESIGN | | 07/04/2025 | | |
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| PROJECT NA | ME & | ADDRESS | | |
| JAMIYLA MEADE RESIDENCE | | 373 DEER VIEW, SANFORD, NC 27332 | | |
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| 11" X 17" | | | | |

SHEET NUMBER

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 BACKUP

- I 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
- / 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 | Unit |
|--|----------------------------|----------------------------|--------------------------------|-------------|--------------------------------|----------|
| OUTPUT – AC ON GRID | | | | | | |
| Rated AC Power | 3800 @ 240V | 5760 @ 240V | 7600 | 10000 | 11,400 @ 240V | W |
| Nated Ale Fower | 3300 @ 208V | 5000 @ 208V | 7000 | 10000 | 10,000 @ 208V | |
| 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) | | 59 | 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 | e | | |
| 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⁾ | | | | | | 1 |
| 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 |
| ТНО | | | < 5 | | | % |
| OUTPUT – SOLAREDGE HOME EV CHARGER AC | | | | | | 1 |
| Rated AC Power | | | 9600 | | | W |
| AC Output Voltage Range | | | 211 - 264 | | | Vac |
| On-Grid AC Frequency Range (min - nom - max) | | | 59.3 - 60 - 60.5 | | | Hz |
| Maximum Continuous Output Current @240V | | | 40 | | | Aac |
| (grid, PV and battery) | | | | | | |
| INPUT – DC (PV AND BATTERY) Transformer-less, Ungrounded | | | Yes | | | |
| | | | 480 | | | Vdc |
| Max Input Voltage Nom DC Input Voltage | | | 380 | | | Vdc |
| Reverse-Polarity Protection | | | Yes | | | Vuc |
| Ground-Fault Isolation Detection | | 6 | 00kΩ Sensitivity | | | - |
| INPUT – DC (PV) | | 0 | ooks2 Serisitivity | | | - |
| Maximum DC Power @ 240V | 11 400 | 11 5 20 | 15 200 | 20.000 | 22,000 | W |
| | 11,400 | 11,520 | 15,200 | 20,000 | 22,800 | |
| Maximum DC Power @ 208V | 6600 | 10,000 | - | | 20,000 | W |
| Maximum Input Current ⁽⁷⁾ @ 240V | 20 | 30.5 | 40 | 53 | 60 | Add |
| Maximum Input Current ⁽⁷⁾ @ 208V | 17.5 | 27 | | - | 53 | Add |
| Maximum Input Short Circuit Current | | | 45 99.2 | | | Ada % |
| Maximum Inverter Efficiency | | - | | | 99 @ 240V | |
| CEC Weighted Efficiency | 98.5 99 98.5 0.208V | | | | % | |
| 2-pole Disconnection | | | Yes | | | |

(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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TOP TIER SOLAR SOLUTIONS

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

| REVISIONS DESCRIPTION DATE REV INITIAL DESIGN 07/04/2025 |
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/ SolarEdge Home Hub Inverter

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 Home Battery, LG RESU Prime | | | | | |
| Number of Batteries per Inverter | | Up to 3 SolarEdge Ho | me Battery, up to 2 LC | G 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 | | | Adc |
| 2-pole Disconnection | | Up to the inver | er's rated stand-alone | power | | |
| SMART ENERGY CAPABILITIES | | | | | | |
| Consumption Metering | | | Built-in ⁽⁹⁾ | | | |
| Stand-alone & Battery Storage | With Backup I | nterface (purchased se | eparately) for service u | p to 200A; up to | 3 inverters | |
| EV Charging | | Direct connection to | the SolarEdge Home | EV Charger | | |
| ADDITIONAL FEATURES | | | | | | |
| Supported Communication Interfaces | RS485, Ethe | rnet, Cellular ⁽¹⁰⁾ , Wi-Fi | (optional), SolarEdge | 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 | o mobile application u | sing built-in Wi-Fi Acc | ess Point for loca | l connection | |
| DC Voltage Rapid Shutdown (PV and Battery) | | Ŷ | es, NEC 690.12 | | | |
| STANDARD COMPLIANCE | | | | | | |
| Safety | UL 1741, UL 1741SA, U | JL 1741SB, UL 1699B, C | SA 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, Ru | ile 14H | | |
| Emissions | | FC | C Part 15 Class B | | | |
| INSTALLATION SPECIFICATIONS | | | | | | |
| AC Terminals | | | ks, PE busbar for invert busbar for EV Charge | | | |
| DC Terminals | 4 x termi | nal block pairs for PV | input; 1 x terminal bloc | k pair for battery | input | |
| AC Output and EV AC Output Conduit Size / AWG Range | | 1'' ma | ximum / 14-4 AWG | | | |
| DC Input (PV and Battery) Conduit Size / AWG Range | | 1" ma | ximum / 14-6 AWG | | | |
| Dimensions with Connection Unit (H x W x D) | | 21.06 x 14. | 6 x 8.2 / 535 x 370 x 20 | 08 | | in / m |
| Weight with Connection Unit | | | 44.9 / 20.3 | | | lb / k |
| Noise | | | < 50 | | | dBA |
| Cooling | | Na | atural Convection | | | |
| Operating Temperature Range | | -40 to | +140 / -40 to +60 ⁽¹¹⁾ | | | °F/°(|
| 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 SEACT1250-400NA-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>.

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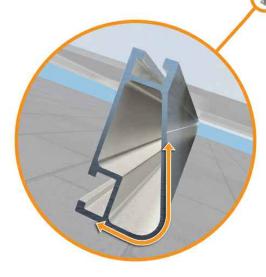


XR Rail[®] Family

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





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

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 | | | | |
| None | 120 | | | | |
| None | 140 | XR10 | | XR100 | |
| | 160 | | | | |
| 20 | 90 | | | | |
| | 120 | | | | |
| | 140 | | | | |
| | 160 | | | | |
| 30 | 90 | | | | |
| -50 | 160 | | | | |
| 40 | 90 | | | | |
| | 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 | |
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| | |
| fication letters for ac | stual design guidance |
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TOP TIER SOLAR SOLUTIONS

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

| REVISIONS | | | |
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| INITIAL DESIGN | 07/04/2025 | | |
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PROJECT NAME & ADDRESS

JAMIYLA MEADE RESIDENCE

373 DEER VIEW, SANFORD, NC 27332

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SHEET NAME EQUIPMENT SPECIFICATION

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER





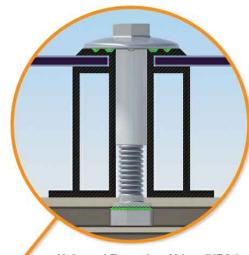
UFO[®] Family of Components

Simplified Grounding for Every Application

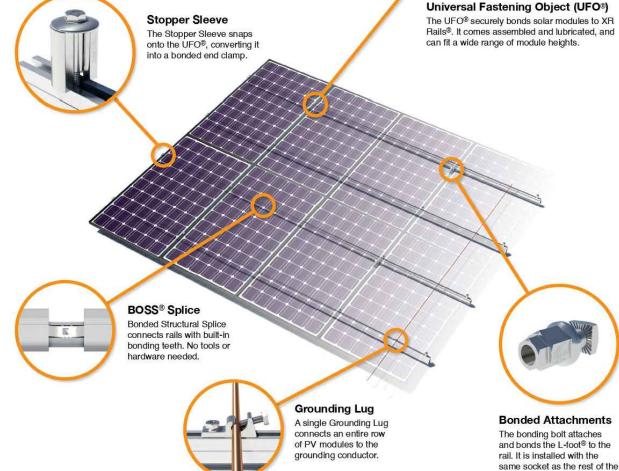
The UFO® family of components eliminates the need for separate grounding hardware by bonding solar modules directly to IronRidge® XR Rails®. All system types that feature the UFO® family-Flush Mount®, Tilt Mount® and Ground Mount®-are fully listed to the UL 2703 standard.

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.

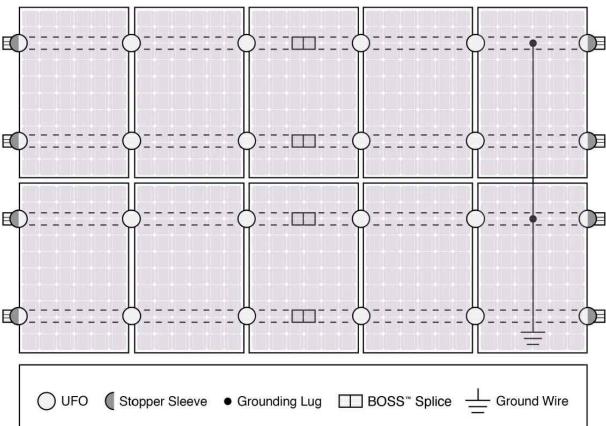
Only for installation and use with IronRidge products in accord with written instructions. See IronRidge.com/UFO



system.



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

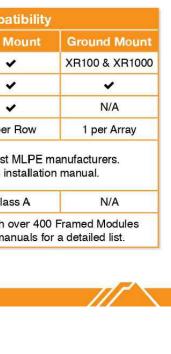
The IronRidge® Flush Mount®, Tilt Mount®, and Ground Mount Systems have been listed to UL 2703 by Intertek Group plc.

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 | v | • |
| BOSS [®] Splice | ~ | |
| Grounding Lugs | 1 per Row 1 p | |
| 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

TOP TIER SOLAR SOLUTIONS

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

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PROJECT NAME & ADDRESS

JAMIYLA MEADE RESIDENCE

373 DEER VIEW, SANFORD, NC 27332

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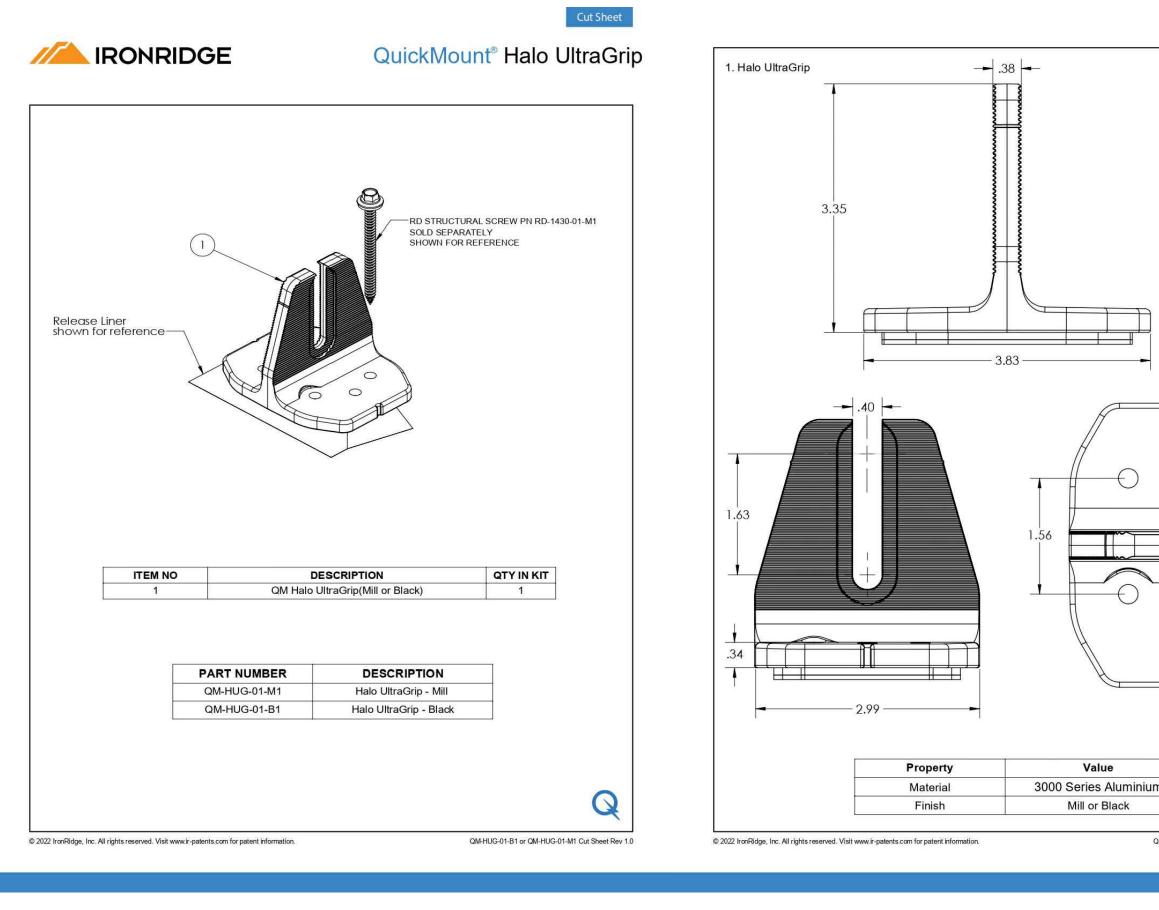
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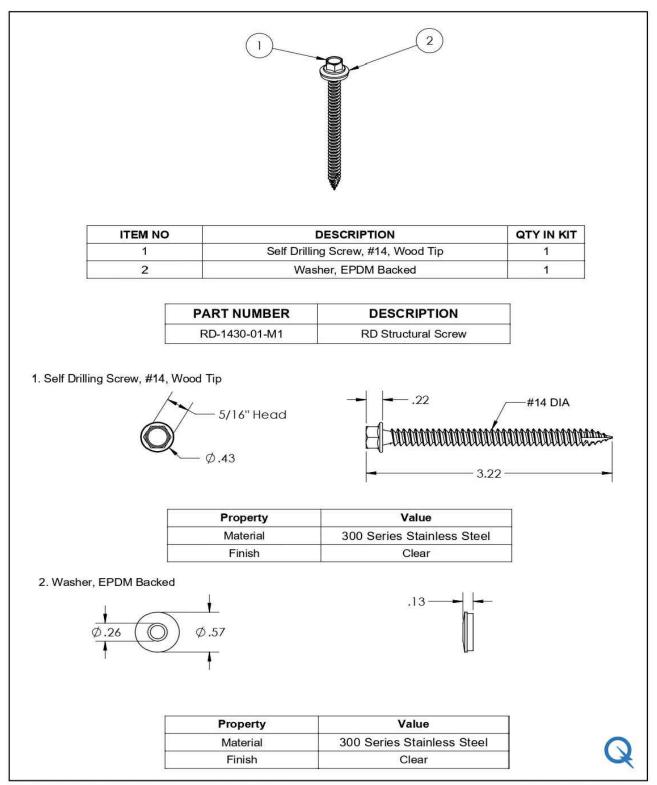
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IRONRIDGE QuickMount[®] RD Structural Screw



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

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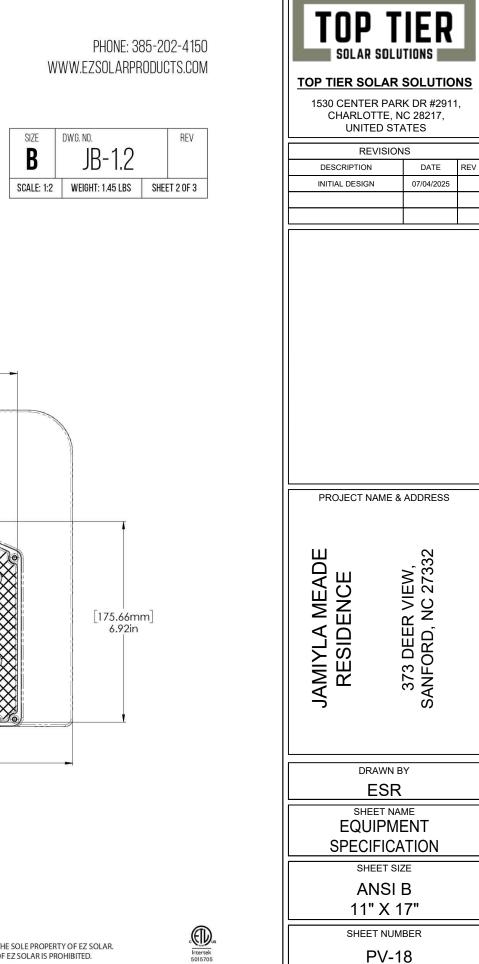


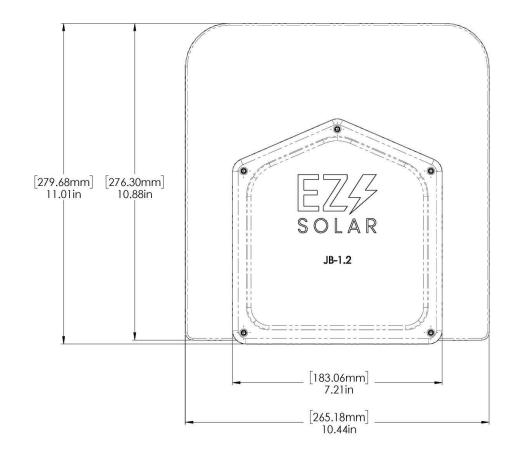
PHONE: 385-202-4150 WWW.EZSOLARPRODUCTS.COM

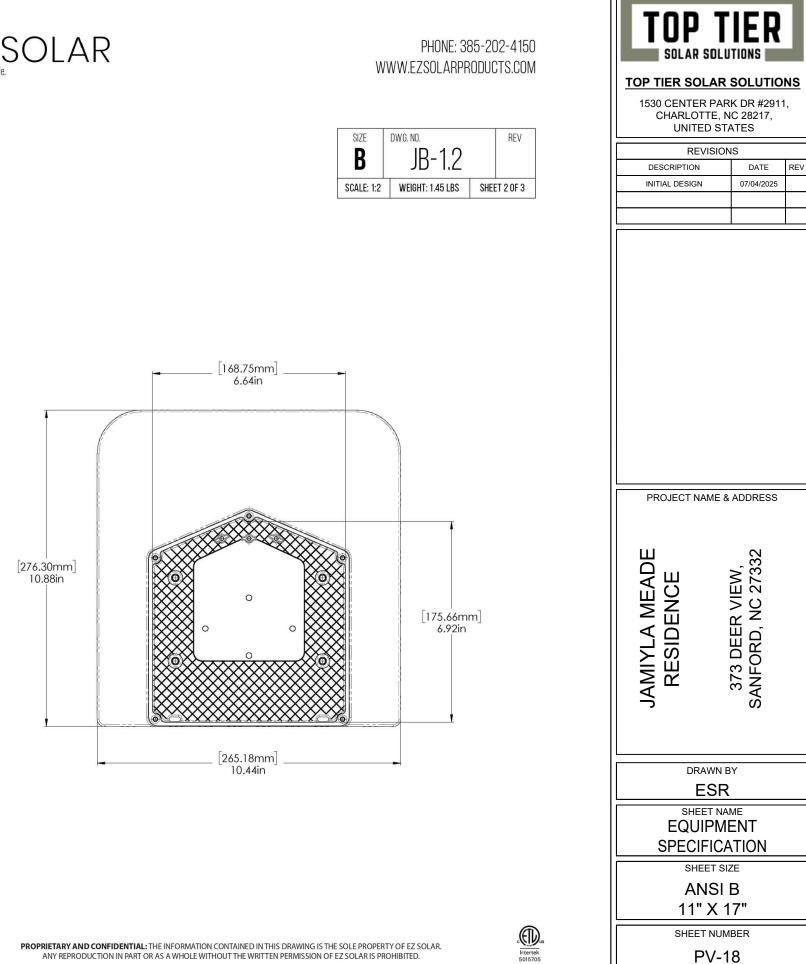


| ITEM NO. | PART NUMBER | DESCRIPTION | QTY |
|----------|---|-------------------------------------|-----|
| 1 | JB-1.2 BODY | POLYCARBONATE WITH UV INHIBITORS | 1 |
| 2 | JB-1.2 LID | POLYCARBONATE WITH UV INHIBITORS | 1 |
| 3 | #10 X 1-1/4" PHILLIPS PAN HEAD SCREW | | 6 |
| 4 | #8 X 3/4" PHILLIPS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

| size dwg. no. | | 8-1.2 | | REV |
|-----------------------|--------|------------------|------|----------|
| SCALE: 1:2 | WEIGHT | : 1.45 LBS | SHEE | T 1 OF 3 |
| TORQUE SPECIFICATION: | | 15-20 LBS | | |
| CERTIFICATION: | | UL 174 CSA C2 | | |
| WEIGHT: | | 1.45 LBS | | |











_ [72.53mm] _ 2.86in