PHOTOVOLTAIC ROOF MOUNT SYSTEM

20 MODULES-ROOF MOUNTED - 7.900 kW DC, 6.000 kW AC

115 NORTHVIEW DR, SANFORD, NC 27332

PROJECT DATA

PROJECT ADDRESS

115 NORTHVIEW DR. SANFORD, NC 27332

OWNER:

ABBIE TRIVITT

DESIGNER: ESR

SCOPE: 7.900 KW DC ROOF MOUNT SOLAR PV SYSTEM WITH

20 MISSION SOLAR: MSE395SX9R 395W

PV MODULES WITH

20 SOLAREDGE: S440 POWER OPTIMIZERS AND 01 SOLAREDGE: SE6000H-US (240V/6000W)

INVERTER

AUTHORITIES HAVING JURISDICTION: BUILDING: HARNETT COUNTY ZONING: HARNETT COUNTY UTILITY: CENTRAL EMC

SHEET INDEX

- PV-1 **COVER SHEET** PV-2 SITE PLAN
- PV-3
- **ROOF PLAN & MODULES** PV-4 **ELECTRICAL PLAN**
- PV-5 STRUCTURAL DETAIL
- PV-6 ELECTRICAL LINE DIAGRAM
- PV-7 WIRING CALCULATIONS
- PV-8
- PV-9+ **EQUIPMENT SPECIFICATIONS**

SIGNATURE

GENERAL NOTES

- 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.
- 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
- PHOTOVOLTAIC INSTALLATION WILL NOT OBSTRUCT ANY PLUMBING. MECHANICAL, OR BUILDING ROOF VENTS.
- 10. ALL WIRING MUST BE PROPERLY SUPPORTED BY DEVICES OR MECHANICAL MEANS DESIGNED AND LISTED FOR SUCH USE. WIRING MUST BE PERMANENTLY AND COMPLETELY HELD OFF THE ROOF SURFACE.
- 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
- 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
- 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).
- ROOFTOP MOUNTED PHOTOVOLTAIC PANELS AND MODULES SHALL BE TESTED, LISTED & IDENTIFIED IN ACCORDANCE WITH
- 22. ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT EXPANSION JOINTS AND ANCHOR CONDUIT RUNS AS REQUIRED PER NEC.

VICINITY MAP



HOUSE PHOTO



CODE REFERENCES

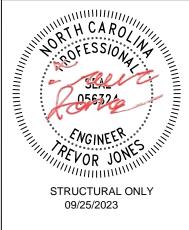
2018 NORTH CAROLINA BUILDING CODE 2018 NORTH CAROLINA RESIDENTIAL CODE 2018 NORTH CAROLINA FIRE CODE 2017 NATIONAL ELECTRICAL CODE



TOP TIER SOLAR SOLUTIONS

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

REVISIONS									
DESCRIPTION	DATE	REV							
INITIAL DESIGN	09/25/2023								



PROJECT NAME & ADDRESS

ABBIE TRIVITT RESIDENCE

115 NORTHVIEW DR, SANFORD, NC 27332

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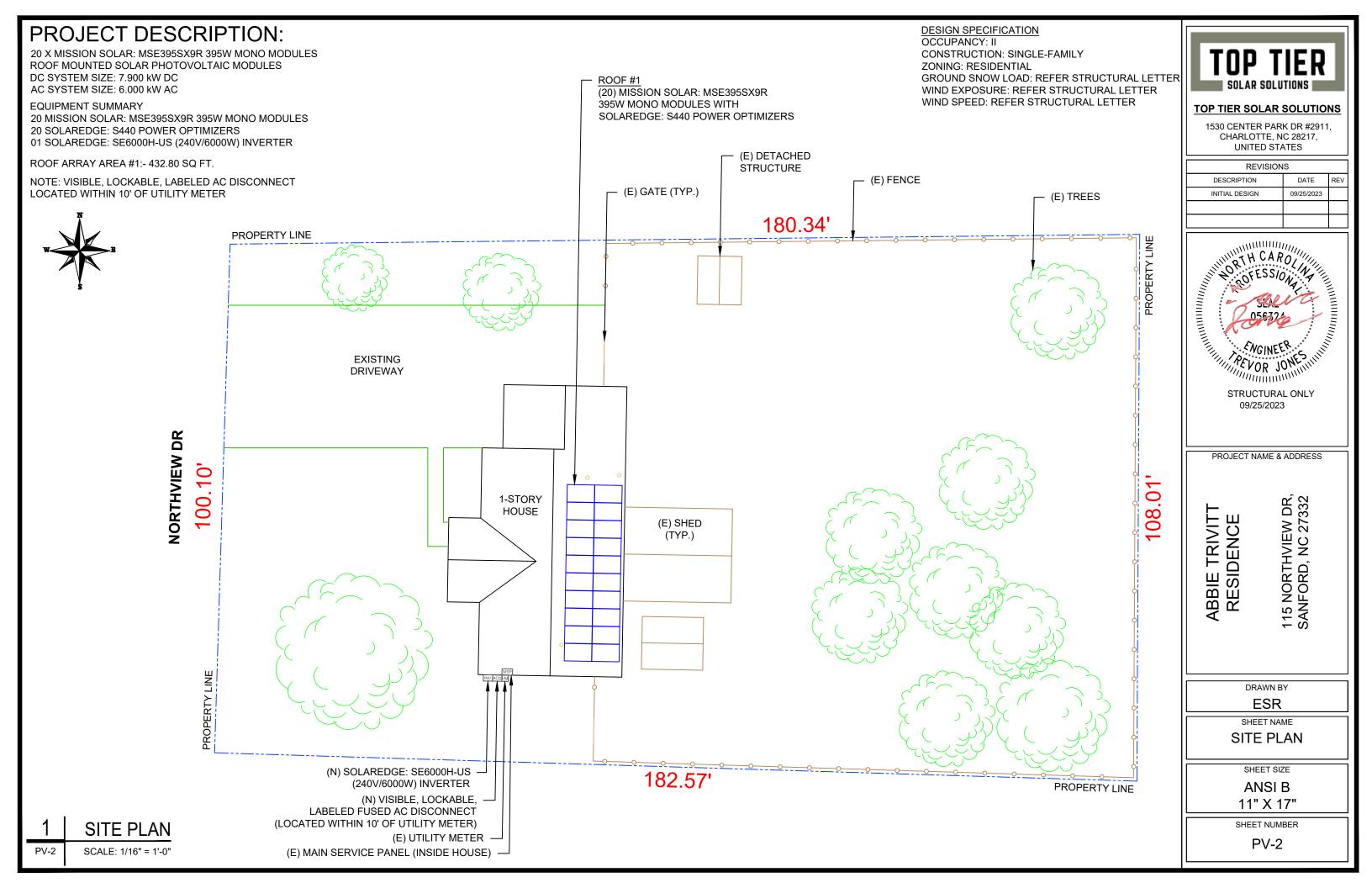
ESR SHEET NAME

COVER SHEET

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER



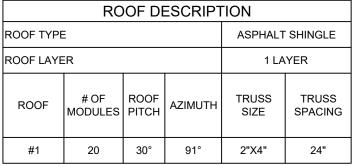
MODULE TYPE, DIMENSIONS & WEIGHT

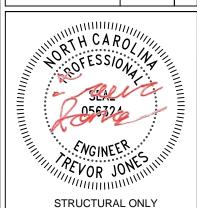
NUMBER OF MODULES = 20 MODULES MODULE TYPE = MISSION SOLAR: MSE395SX9R 395W MONO MODULES MODULE WEIGHT = 48.5 LBS / 22.0 kg. MODULE DIMENSIONS = 75.08" x 41.50" = 21.64 SF



	110	יטו טו	_001111 1	1011			
ROOF TYPI	E		ASPHALT SHINGLE				
ROOF LAY!	ER		1 LA	Ш			
ROOF	# OF MODULES	ROOF PITCH	AZIMUTH	TRUSS SIZE	TRUSS SPACING	ľ	
#1	20	2"X4"	24"				
Al	RRAY AR	REA &	ROOF AI	REA CAL	C'S	l	

ARRAY AREA & ROOF AREA CALC'S												
TOTAL PV ARRAY AREA (SQ. FT.)	TOTAL ROOF AREA (Sq. Ft.)	ROOF AREA COVERED BY ARRAY (%)										
432.80	1694.43	26										





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ABBIE TRIVITT RESIDENCE

41.50"

MISSION SOLAR:

MSE395SX9R 395W MODULES

.08"

75.

115 NORTHVIEW DR, SANFORD, NC 27332

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SHEET NAME **ROOF PLAN &**

MODULES

SHEET SIZE **ANSI B**

11" X 17"

SHEET NUMBER PV-3

SETBACK SETBACK 18" FIRE (57'-7" 18" FIRE SETBACK 18" FIRE SETBACK (N) IRONRIDGE XR-10 RAIL (TYP.) IRONRIDGE HALO ULTRAGRIP ATTACHMENTS 35' 4-0" 36" FIRE SETBACK MSP (E) MAIN SERVICE PANEL PITCH - 30° AZIM. - 91° (INSIDE HOUSE)

36" FIRE

ROOF #1

(20) MISSION SOLAR: MSE395SX9R

SOLAREDGE: S440 POWER OPTIMIZERS

395W MONO MODULES WITH

LEGEND

- JUNCTION BOX

- INVERTER

- AC DISCONNECT

- UTILITY METER - MAIN SERVICE PANEL MSP

- SUB PANEL

- VENT, ATTIC FAN (ROOF OBSTRUCTION)

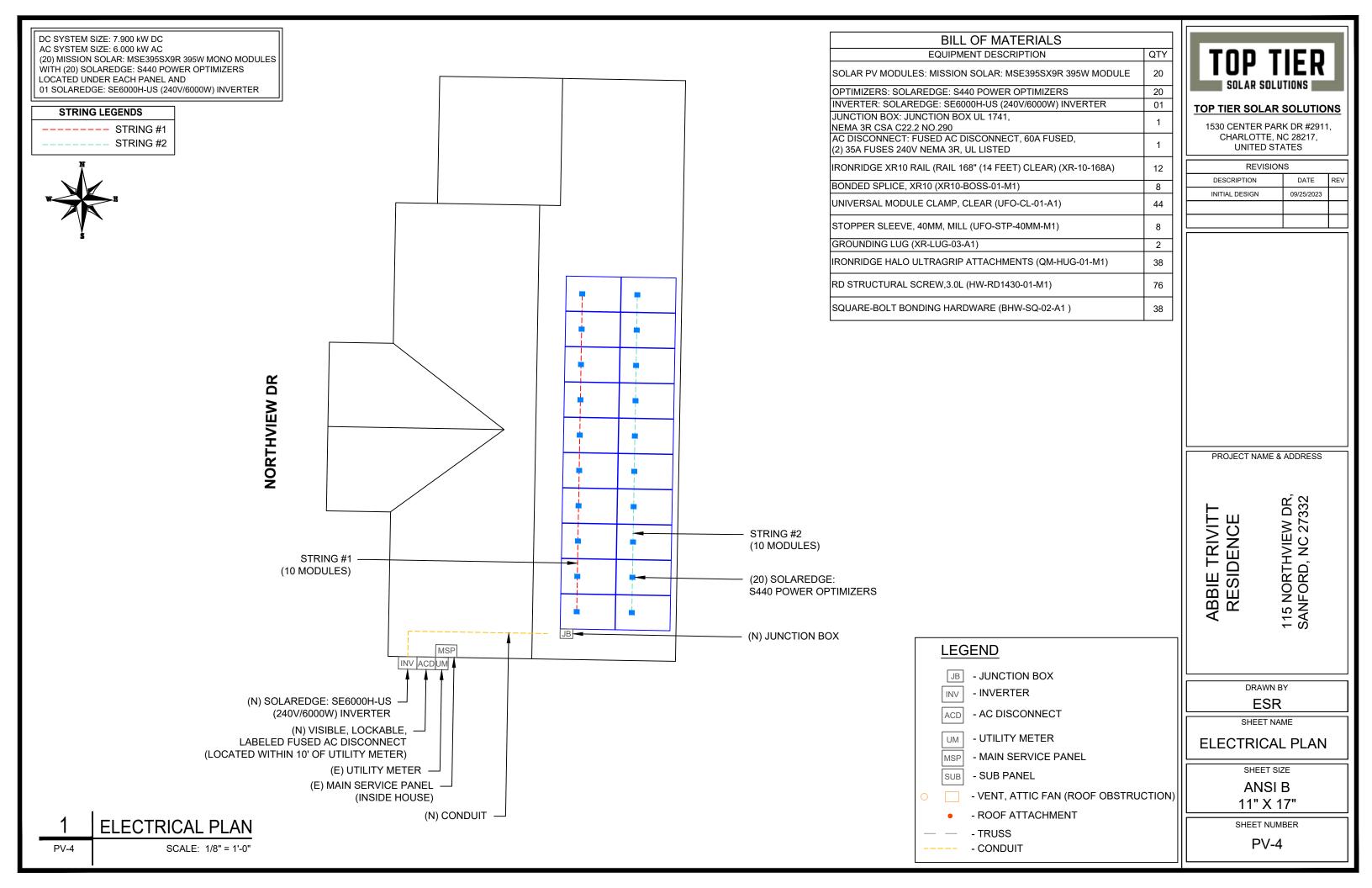
- ROOF ATTACHMENT

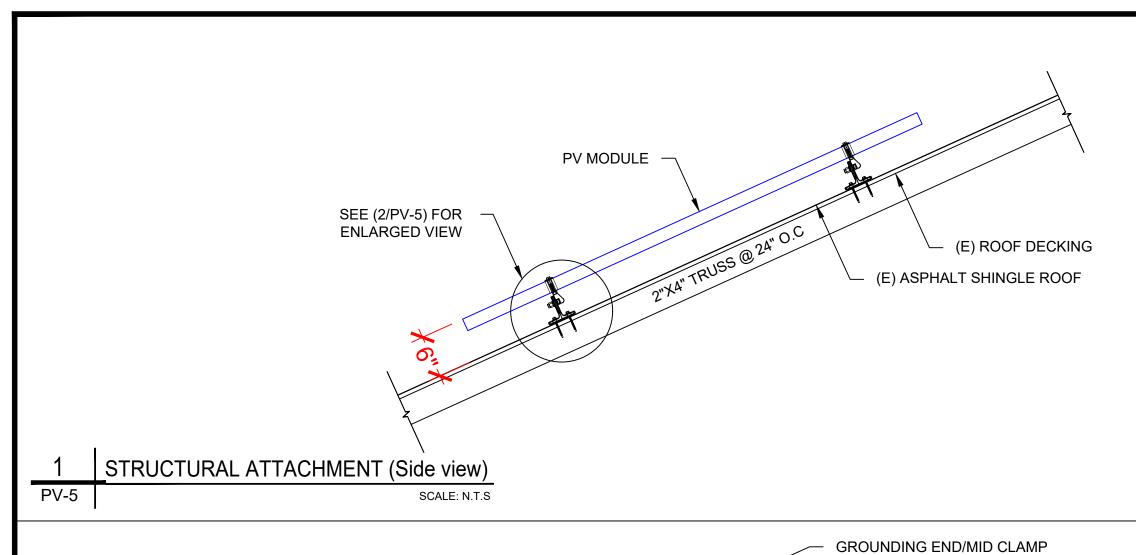
- TRUSS - CONDUIT

ROOF PLAN & MODULES

PV-3

SCALE: 1/8" = 1'-0"



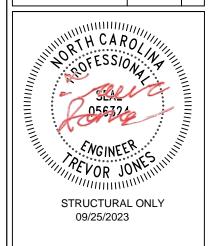




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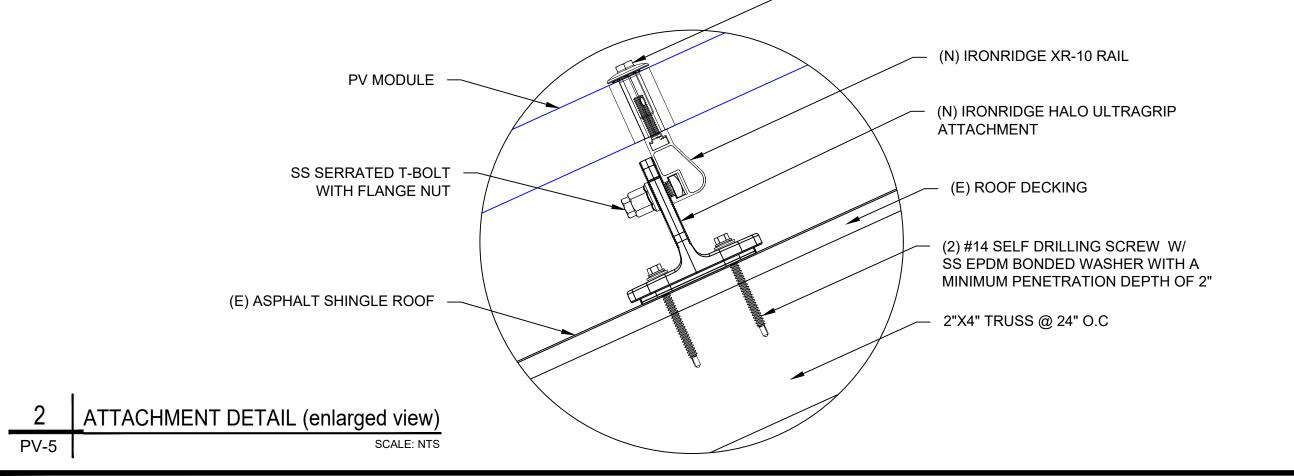
SHEET NAME

STRUCTURAL DETAIL

SHEET SIZE

ANSI B

11" X 17"
SHEET NUMBER



DC SYSTEM SIZE: 7.900 kW DC AC SYSTEM SIZE: 6.000 kW AC

(20) MISSION SOLAR: MSE395SX9R 395W MONO MODULES WITH (20) SOLAREDGE: S440 POWER OPTIMIZERS LOCATED UNDER EACH PANEL (240V) AND (01) SOLAREDGE: SE6000H-US (240V/6000W) INVERTER (2) STRINGS OF 10 MODULES ARE CONNECTED IN SERIES

BACKFEED BREAKER CALCULATION (120% RULE):

(MAIN BUS X 1.2 - MAIN BREAKER) >= (PV BREAKER) (200A X 1.2 - 200A) >= (35A) (40A) >= (35A) HENCE OK

INTERCONNECTION NOTES:

- 1. INTERCONNECTION SIZING, LIMITATIONS AND COMPLIANCE DETERMINED IN ACCORDANCE WITH [NEC 705.12], AND [NEC 690.59]. 2. GROUND FAULT PROTECTION IN ACCORDANCE WITH [NEC 215.9], [NEC 230.95].
- 3. ALL EQUIPMENT TO BE RATED FOR BACKFEEDING
- 4. PV BREAKER TO BE POSITIONED AT THE OPPOSITE END OF THE BUSBAR RELATIVE TO THE MAIN BREAKER.

DISCONNECT NOTES:

- 1. DISCONNECTING SWITCHES SHALL BE WIRED SUCH THAT WHEN THE SWITCH IS OPENED THE CONDUCTORS REMAINING LIVE ARE CONNECTED TO THE TERMINALS MARKED "LINE SIDE" (TYPICALLY THE UPPER TERMINALS)
- 2. AC DISCONNECT MUST BE ACCESSIBLE TO QUALIFIED UTILITY PERSONNEL, BE LOCKABLE, AND BE A VISIBLE-BREAK SWITCH
 3. DISCONNECT MEANS AND THEIR LOCATION SHALL BE IN ACCORDANCE WITH [NEC 225.31] AND [NEC 225.32].

GROUNDING & GENERAL NOTES:

- 1. PV GROUNDING ELECTRODE SYSTEM NEEDS TO BE INSTALLED IN ACCORDANCE WITH [NEC 690.43]
- 2. PV INVERTER IS UNGROUNDED, TRANSFORMER-LESS TYPE.
- 3. DC GEC AND AC EGC TO REMAIN UNSPLICED, OR SPLICED TO EXISTING
- 4. ANY EXISTING WIRING INVOLVED WITH PV SYSTEM CONNECTION THAT IS FOUND TO BE INADEQUATE PER CODE SHALL BE CORRECTED PRIOR TO FINAL
- 5. JUNCTION BOX QUANTITIES, AND PLACEMENT SUBJECT TO CHANGE IN THE FIELD - JUNCTION BOX DEPICTED ON ELECTRICAL DIAGRAM REPRESENT WIRE TYPE TRANSITIONS.
- 6. AC DISCONNECT NOTED IN EQUIPMENT SCHEDULE OPTIONAL IF OTHER AC DISCONNECTING MEANS IS LOCATED WITHIN 10' OF SERVICE DISCONNECT. 7. RACEWAYS AND CABLES EXPOSED TO SUNLIGHT ON ROOFTOPS SHOULD BE INSTALLED MORE THAN 7/8" ABOVE THE ROOF USING CONDUIT SUPPORTS.

RACKING NOTE:

NOTE: CONDUIT TO BE UL LISTED FOR

WET LOCATIONS AND UV PROTECTED

BOND EVERY OTHER RAIL WITH #6 BARE COPPER



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PROJECT NAME & ADDRESS

TRIVIT RESIDENCE ABBIE

CONDUIT

115 NORTHVIEW DR, SANFORD, NC 27332

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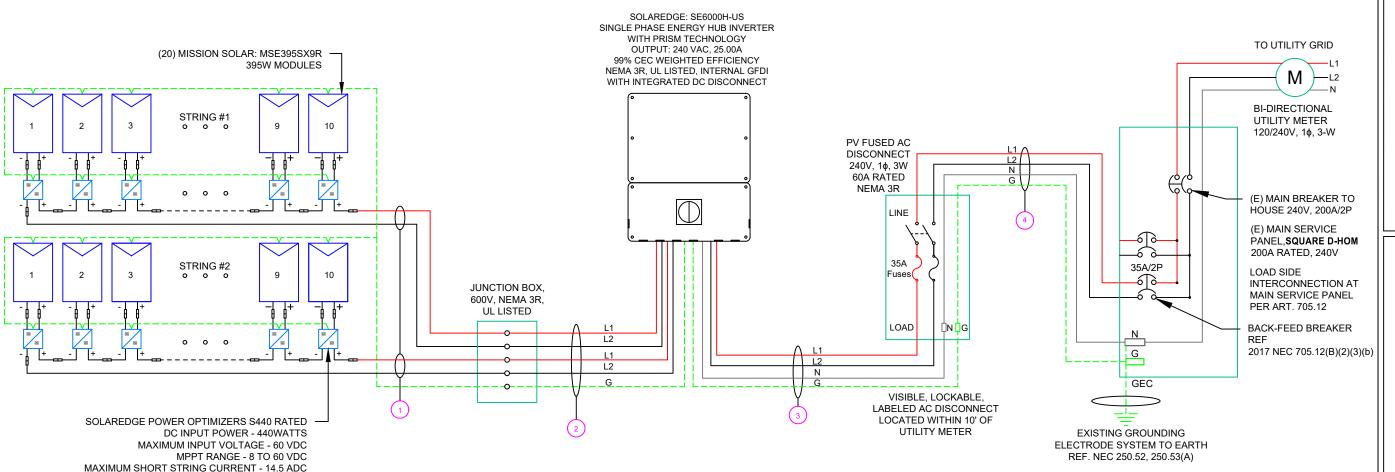
SHEET NAME

ELECTRICAL LINE DIAGRAM

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER PV-6



ELECTRICAL LINE DIAGRAM SCALE: NTS PV-6

MAXIMUM OUTPUT CURRENT - 15 ADC STRING LIMITATIONS - 8 TO 25 OPTIMIZERS, 5700 WATTS STC PER STRING MAXIMUM

> QTY CONDUCTOR INFORMATION **CONDUIT TYPE** SIZE (4) #10AWG -PV WIRE/USE-2 N/A BARE COPPER IN FREE AIR (1) #6AWG -CU,THWN-2 (4) #10AWG -EMT OR LFMC IN ATTIC 3/4" CU,THWN-2 GND (1) #10AWG -CU,THWN-2 (2) #8AWG -CU,THWN-2 N EMT,LFMC OR PVC (1) #8AWG -3/4" (1) #10AWG -CU,THWN-2 GND (2) #8AWG -CU,THWN-2 #8AWG -CU,THWN-2 N EMT, LFMC OR PVC #10AWG -CU,THWN-2 GND

SOLAR MODULE SPECIFICATIONS										
MANUFACTURER / MODEL #	MISSION SOLAR: MSE395SX9R 395W MODULE									
VMP	36.99V									
IMP	10.68A									
VOC	45.18V									
ISC	11.24A									
TEMP. COEFF. VOC	-0.259%/°C									
MODULE DIMENSION	75.08"L x 41.50"W x 1.57"D (In Inch)									

<u>INVERTER SPECIFICATIONS</u>											
MANUFACTURER / MODEL #	SOLAREDGE: SE6000H-US (240V/6000W) INVERTER										
NOMINAL AC POWER	6.000 kW										
NOMINAL OUTPUT VOLTAGE	240 VAC										
NOMINAL OUTPUT CURRENT	25.00A										

NOMINAL OUTPUT	25.00A				
PERCENT OF	R OF CURRENT				
VALUES		ONDUCTORS IN EMT			
.80	4-6				
.70		7-9			
.50		10-20			

AMBIENT TEMPERATURE SPECS									
AMBIENT TEMP (HIGH TEMP 2%)	38°								
RECORD LOW TEMPERATURE	-11°								
MODULE TEMPERATURE COEFFICIENT OF Voc	-0.259%/°C								



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AC FEEDER CALCULATIONS

ı											.,												
	CIRCUIT ORIGIN	CIRCUIT DESTINATION	VOLTAGE (V)	FULL LOAD AMPS "FLA" (A)	FLA*1.25	OCPD SIZE (A)	NEUTRAL SIZE	GROUND SIZE	CONDUCTOR SIZE	75°C AMPACITY (A)	AMPACITY CHECK #1		TOTAL CC CONDUCTORS IN RACEWAY	OOSC ABAD A CITY (A)	FOR AMBIENT	DERATION FACTOR FOR CONDUCTORS PER RACEWAY NEC 310.15(B)(3)(a)	AMPACITY		FEEDER LENGTH (FEET)	CONDUCTOR RESISTANCE (OHM/KFT)		COMPLIE	CONDUIT FILL (%)
	INVERTER	AC DISCONNECT	240	25	31.25	35	CU #8 AWG	CU #10 AWG	CU #8 AWG	50	PASS	38	2	55	0.91	1	50.05	PASS	5	0.778	0.081	3/4" EMT	24.5591
1	AC DISCONNECT	POI	240	25	31.25	35	CU #8 AWG	CU #10 AWG	CU #8 AWG	50	PASS	38	2	55	0.91	1	50.05	PASS	5	0.778	0.081	3/4" EMT	24.5591

CUMULATIVE VOLTAGE DROP 0.162

	DC FEEDER CALCULATIONS																				
CIRCUIT ORIGIN	CIRCUIT DESTINATION		FULL LOAD AMPS "FLA" (A)	FLA*1.25 (A)	OCPD SIZE (A)	- CDOLINID SIZE	CONDUCTOR SIZE	75°C AMPACITY (A)	AMPACITY CHECK #1	AMBIENT TEMP. (°C)	TOTAL CC CONDUCTO RS 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)	CONDUCTOR RESISTANCE (OHM/KFT)		CONDUIT SIZE	CONDUIT FILL (%)
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	0.049	N/A	#N/A
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	0.049	N/A	#N/A
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	0.196	3/4" EMT	19.79362

 String 1 Voltage Drop
 0.245

 String 2 Voltage Drop
 0.245

PROJECT NAME & ADDRESS

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ELECTRICAL NOTES

- 1. ALL EQUIPMENT TO BE LISTED BY UL OR OTHER NRTL, AND LABELED FOR ITS APPLICATION.
- 2. ALL CONDUCTORS SHALL BE COPPER, RATED FOR 600 V AND 90 DEGREE C WET ENVIRONMENT.
- 3. WIRING, CONDUIT, AND RACEWAYS MOUNTED ON ROOFTOPS SHALL BE ROUTED DIRECTLY TO, AND LOCATED AS CLOSE AS POSSIBLE TO THE NEAREST RIDGE, HIP, OR VALLEY.
- 4. WORKING CLEARANCES AROUND ALL NEW AND EXISTING ELECTRICAL EQUIPMENT SHALL COMPLY WITH NEC 110.26.
- 5. DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS AND ACCESSORIES TO FULFILL APPLICABLE CODES AND STANDARDS.
- 6. WHERE SIZES OF JUNCTION BOX, RACEWAYS, AND CONDUITS ARE NOT SPECIFIED, THE CONTRACTOR SHALL SIZE THEM ACCORDINGLY.
- 7. ALL WIRE TERMINATIONS SHALL BE APPROPRIATELY LABELED AND READILY VISIBLE.
- 8. MODULE GROUNDING CLIPS TO BE INSTALLED BETWEEN MODULE FRAME AND MODULE SUPPORT RAIL, PER THE GROUNDING CLIP MANUFACTURER'S INSTRUCTION.
- 9. MODULE SUPPORT RAIL TO BE BONDED TO CONTINUOUS COPPER G.E.C. VIA WEEB LUG OR ILSCO GBL-4DBT LAY-IN
- 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.

DRAWN BY
ESR

SHEET NAME

WIRING CALCULATIONS

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

PHOTOVOLTAIC POWER SOURCE

EVERY 10' ON CONDUIT & ENCLOSURES

LABEL- 1: LABEL LOCATION: EMT/CONDUIT RACEWAY SOLADECK / JUNCTION BOX CODE REF: NEC 690.31 (D)(2)

⚠ WARNING

ELECTRIC SHOCK HAZARD

TERMINALS ON THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

LABEL - 2: LABEL LOCATION: AC DISCONNECT CODE REF: NEC 690.13(B)

⚠ WARNING

DUAL POWER SUPPLY

SOURCE: UTILITY GRID AND PV SOLAR ELECTRIC SYSTEM

LABEL- 3:
LABEL LOCATION:
MAIN SERVICE PANEL
CODE REF: NEC 705.12(C) & NEC 690.59

SOLAR PV BREAKER:

BREAKER IS BACKFED DO NOT RELOCATE

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

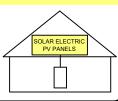
△ WARNING

POWER SOURCE OUTPUT CONNECTION. DO NOT RELOCATE THIS OVERCURRENT DEVICE

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

TURN RAPID SHUTDOWN
SWITCH TO THE
"OFF" POSITION TO
SHUT DOWN PV SYSTEM
AND REDUCE
SHOCK HAZARD
IN THE ARRAY



LABEL - 6: LABEL LOCATION: 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 SYSTEM POWER SOURCE NOMINAL OPERATING AC VOLATGE 240 V

LABEL LOCATION:

RATED AC OUTPUT CURRENT

LABEL LOCATION: AC DISCONNECT CODE REF: NEC 690.54

MAXIMUM VOLTAGE	480 V
MAXIMUM CIRCUIT CURRENT	16.50 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

25.00 A



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ABBIE TRIVITT RESIDENCE

DRAWN BY

SHEET NAME

LABELS

SHEET SIZE

ANSI B

11" X 17"

SHEET NUMBER

MSE PERC 66





-0 to +3%



FRAME-TO-FRAME WARRANTY

Degradation guaranteed not to exceed 2% in year one and 0.58% annually from years two to 30 with 84.08% capacity guaranteed in year 25. For more information, visit www.missionsolar.com/warranty

CERTIFICATIONS







If you have questions or concerns about certification of our products in your area,

True American Quality True American Brand

Mission Solar Energy is headquartered in San Antonio, Texas where we manufacture our modules. We produce American, high-quality solar modules ensuring the highest-in-class power output and best-in-class reliability. Our product line is tailored for residential, commercial and utility applications. Every Mission Solar Energy solar module is certified and surpasses industry standard regulations, proving excellent performance over the long term.

Demand the best. Demand Mission Solar Energy.



Certified Reliability

- Tested to UL 61730 & IEC Standards
- PID resistant
- · Resistance to salt mist corrosion



Advanced Technology

- 9 Rushar
- · Passivated Emitter Rear Contact
- · Ideal for all applications



Extreme Weather Resilience

- Up to 5,400 Pa front load & 3,600 Pa back load
- Tested load to UL 61730



BAA Compliant for Government Projects

- Buy American Act
- American Recovery & Reinvestment Act





UL 61730 / IEC 61215 / IEC 61730 / IEC 61701

C-SA2-MKTG-0027 REV 4 03/18/2022 www.missionsolar.com | info@missionsolar.com Class Leading 390-400W

FRONT VIEW

SIDE VIEW

Incident

Irrd. = 800 W/m2

Irrd. = 600 W/m⁴

Irrd. = 400 W/m2

Irrd. = 200 W/m2

61215, 61730, 61701

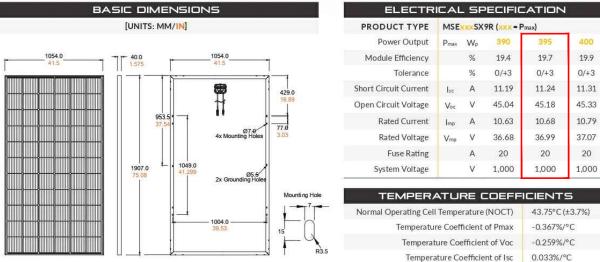
VOLTAGE (V)

CERTIFICATIONS AND TESTS

61730

UL

MSE PERC 66



REAR VIEW

INCHI	VIEW SIDE VIEW	IXELIK A I L AA		
			OPERATIN	CONDITIONS
	CURRENT-VOLTAGE	E CURVE	Maximum System Voltage	1,000Vdc
	MSE385SX9R: 385WP. 66 CELLS	91 2002CCCCCCCC	Operating Temperature Range	-40°F to 185°F (-40°C to +85°C)
6 1	,		Maximum Series Fuse Rating	20A
Current-	voltage characteristics with dependence on i	rradiance and module temperature	Fire Safety Classification	Type 1*
12	Cells Temp. =25°C Incident Irrd. = 1000	W/m ²	Front & Back Load (UL Standard)	Up to 5,400 Pa front and 3,600 Pa back load, Tested to UL 61730
	1131-200		Hail Safety Impact Velocity	25mm at 23 m/s

*Mission Solar Energy uses quality sourced materials that result in a Type 1 fire rating. Please note, the 'Fire Class' Rating is designated for the fully-installed PV system, which includes, but is not limited to, the module, the type of mounting used, pitch and roof composition.

ME	ECHANICAL DATA
Solar Cells	P-type mono-crystalline silicon
Cell Orientation	66 cells (6x11)
Module Dimension	1,907mm x 1,054mm x 40mm
Weight	48.5 lbs. (22 kg)
Front Glass	3.2mm tempered, low-iron, anti-reflective
Frame	40mm Anodized
Encapsulant	Ethylene vinyl acetate (EVA)
Junction Box	Protection class IP67 with 3 bypass-diodes
Cable	1.2m, Wire 4mm2 (12AWG)
Connector	Staubli PV-KBT4/6II-UR and PV-KST4/6II-UR MC4, Renhe 05-8

S	HIPPING	INFOR	RMATIO	N
Container Feet	Ship To	Pallet	Panels	390W Bin
53'	Most States	30	780	304.20 kW
Double Stack	CA	26	676	263.64 kW
	PALLE	T [26 PAN	IELS]	
Weight 1,300 lbs. (572 kg)	Height 47.56 in (120.80 cm) (1	Width 46 in 16.84 cm)	Length 77 in (195.58 cm)

Mission Solar Energy reserves the right to make specification changes without notice.

8303 S. New Braunfels Ave., San Antonio, Texas 78235

www.missionsolar.com | info@missionsolar.com

Mission Solar Energy

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TOP TIER SOLAR SOLUTIONS

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

REVISION	REVISIONS				
DESCRIPTION	DATE	REV			
INITIAL DESIGN	09/25/2023				

PROJECT NAME & ADDRESS

115 NORTHVIEW DR, SANFORD, NC 27332

ABBIE TRIVITI RESIDENCE TRIVIT

> DRAWN BY **ESR**

SHEET NAME **EQUIPMENT SPECIFICATION**

> SHEET SIZE ANSI B

11" X 17"

PV-9

SHEET NUMBER

Power Optimizer

For Residential Installations

S440 / S500 / S500B / S650B



POWER OPTIMIZER

Enabling PV power optimization at the module level

- Specifically designed to work with SolarEdge residential inverters
- Detects abnormal PV connector behavior, preventing potential safety issues*
- Module-level voltage shutdown for installer and firefighter safety
- Superior efficiency (99.5%)

- / Mitigates all types of module mismatch loss, from manufacturing tolerance to partial shading
- Faster installations with simplified cable management and easy assembly using a single bolt
- Flexible system design for maximum space
- Compatible with bifacial PV modules



/ Power Optimizer

For Residential Installations

S440 / S500 / S500B / S650B

	S440	S500	S500B	S650B	UNIT
INPUT					
Rated Input DC Power ⁽¹⁾	440		500	650	W
Absolute Maximum Input Voltage (Voc)	60)	125	85	Vdc
MPPT Operating Range	8-	60	12.5 - 105	12.5 - 85	Vdc
Maximum Short Circuit Current (Isc) of Connected PV Module	14.5		15		Adc
Maximum Efficiency		9	9.5		%
Weighted Efficiency		9	8.6		%
Overvoltage Category			II		
OUTPUT DURING OPERTION					
Maximum Output Current			15		Adc
Maximum Output Voltage	60)	8	80	Vdc
OUTPUT DURING STANDBY (POWER OPTIMIZER	DISCONNECTED	FROM INVERTER	OR INVERTER OF	F)	-
Safety Output Voltage per Power Optimizer	1 ± 0.1				Vdc
STANDARD COMPLIANCE(2)					
EMC	FCC Part 15 Class B, IEC61000-6-2, IEC61000-6-3, CISPR11, EN-55011				
Safety		IEC62109-1 (class	s II safety), UL1741		
Material		UL94 V-0,	UV Resistant		
RoHS		Y	/es		
Fire Safety		VDE-AR-E 21	00-712:2018-12		
INSTALLATION SPECIFICATIONS					
Maximum Allowed System Voltage		10	000		Vdc
Dimensions (W x L x H)	129 x 15	5 x 30	129 x 1	65 x 45	mm
Weight	72	0	7	90	gr
Input Connector		M	C4 ⁽³⁾		
Input Wire Length		(0,1		m
Output Connector	MC4				
Output Wire Length		(+) 2.3	, (-) 0.10		m
Operating Temperature Range ⁽⁴⁾	-40 to +85				*C
Protection Rating	IP68				
Relative Humidity	0-100				%

(1) 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.

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

(3) For other connector types please contact SolarEdge.
(4) Power de-rating is applied for ambient temperatures above +85°C for S440 and S500, and for ambient temperatures above +75°C for S500B. Refer to the

Power Optimizers Temperature De-Rating Technical Note for details.

PV System Design Usi	ng a Solar Edge Inverter ⁽⁵⁾	SolarEdge Home Wave Inverter Single Phase	SolarEdge Home Short String Inverter Three Phase	Three Phase for 230/400V Grid	Three Phase for 277/480V Grid	
Minimum String Length	\$440, \$500	8	9	16	18	
(Power Optimizers)	S500B, S650B	6	8	1	4	
Maximum String Length (Po	ower Optimizers)	25	20	5	0	
Maximum Continuous Pow	er per String	5700	5625	11250	12750	W
	ted Power per String naximum is permitted only when the between strings is 2,000W or less)	See ⁽⁶⁾	See ⁽⁶⁾	13500	15000	W
Parallel Strings of Different	Lengths or Orientations		Yes			

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

(6) If the Inverter's rated AC power s maximum nominal power per string, then the maximum power per string will be able to reach up to the inverters maximum input DC power.

Refer to Application Note: Single String Design Guidelines.

S440, S500 (Flat Bracket)	S500B, S650B (Bent Bracket)		
155 135 135 135	105 146		
82	9 2 S2		

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CE RoHS

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ABBIE TRIVITT RESIDENCE

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115 NORTHVIEW DR, SANFORD, NC 27332

ESR SHEET NAME

EQUIPMENT SPECIFICATION

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER PV-10

solaredge.com

^{*} Functionality subject to inverter model and firmware version

Single Phase Energy Hub Inverter with Prism Technology

For North America

SE3000H-US / SE3800H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US(1)



Optimized battery storage with HD-Wave technology

- Record-breaking 99% weighted efficiency with 200% DC oversizing
- Small, lightweight, and easy to install
- / Modular design, future ready with optional
- DC-coupled storage for full or partial home backup
- Built-in consumption monitoring
- Direct connection to the SolarEdge smart EV

- Multi-inverter, scalable storage solution With enhanced battery power up to 10kW
- Integrated arc fault protection and rapid shutdown for NEC 2014, NEC 2017 and NEC 2020, per article 690.11 and 690.12
- Embedded revenue grade production data, ANSI C12.20 Class 0.5



/ Single Phase Energy Hub Inverter with Prism Technology

For North America

SE3000H-US / SE3800H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US(1)

	SE3000H-US	SE3800H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	UNITS
OUTPUT - AC ON GRID	-						
Rated AC Power	3000	3800 @ 240V 3 300 @ 208V	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	W
Maximum AC Power Output	3000	3800 @ 240V 3300 @ 208V	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	W
AC Frequency Range (min - nom - max)			59.3 - 60) - 60.5 ¹²¹	-		Hz
Maximum Continuous Output Current @ 240V	12.5	16	25	32	42	47.5	A
Maximum Continuous Output Current @ 208V	-	16	24	8	¥:	48.5	A
GFDI Threshold		9		1	h		А
Total Harmonic Distortion (THD)			<	3			%
Power Factor			1, adjustable	-0.85 to 0.85			
Utility Monitoring, Islanding Protection, Country Configurable Thresholds			Ye	es			
Charge Battery from AC (if allowed)			Ye				
Typical Nighttime Power Consumption			<2				W
OUTPUT - AC BACKUP(3)							1,00.0
OUT OF THE BREKET	Ti-	3800		7600	1	F	Г
Rated AC Power in Backup Operation®	3000	7600*	6000	10300*	10000	10300	W
AC L-L Output Voltage Range in Backup			211 -	264			Vac
AC L-N Output Voltage Range in Backup	105 - 132					Vac	
AC Frequency Range in Backup (min - nom - max)	55 - 60 - 65					Hz	
Maximum Continuous Output Current in Backup Operation	12.5	16	- 25	32 43*	42	43	A
GFDI		32*					A
THD				5			%
OUTPUT - SMART EV CHARGER AC	<u> </u>			.5			. 70
Rated AC Power	Ť		96	00			W
AC Output Voltage Range	-		211 -	2007			Vac
On-Grid AC Frequency Range (min - nom - max)			C25179	0 - 60.5			Hz
	-		X3493845.1472	0 - 00.5			11300-5
Maximum Continuous Output Current @240V (grid, PV and battery) INPUT - DC (PV AND BATTERY)			4	U			Aac
	T		Ye				
Transformer-less, Ungrounded							111
MaxInput Voltage	-		48				Vdc
Nom DC Input Voltage	-		38				Vdc
Reverse-Polarity Protection	-			es es			
Ground-Fault Isolation Detection			600kΩ S	ensitivity			
INPUT - DC (PV)		1 2000		The substance of		T-	
Maximum DC Power @ 240V	6000	7600 15200*	12000	15200 22800*	22000	22800	W
Maximum DC Power @ 208V	161	6600	10000	-	22	20000	W
Maximum Input Current ⁽⁹⁾ @ 240V	8.5	10.5 20*	16.5	20 31*	- 27	31	Adc
Maximum Input Current ⁽⁵⁾ @ 208V	0.00	9	13.5	-	0	27	Adc
Max. Input Short Circuit Current		7:	4	5			Adc
Maximum Inverter Efficiency	99			99.2			%
CEC Weighted Efficiency		L	99	or or class :		99 @ 240V 98.5 @ 208V	%
2-pole Disconnection			Ye	200		50.3 @ 200V	258

* Supported with PN SExxxxH-USMMxxxxxx or SExxxxH-USMNxxxxx

(f) These specifications apply to inverters with part numbers SExxxxH-USSMxxxxx or SExxxxH-USSNxxxxxx and connection unit model number DCD-1PH-US-PxH-F-x

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

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SHEET NAME **EQUIPMENT SPECIFICATION**

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

PV-11

solaredge.com

/ Single Phase Energy Hub Inverter with Prism Technology

For North America

SE3000H-US / SE3800H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US(1)

	SE3000H-US	SE3800H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	UNIT:
INPUT - DC (BATTERY)				•	L.	1	
Supported Battery Types		Sol	arEdge Energy Ban	k, LG RESU Prime ⁽⁶⁾			
Number of Batteries per Inverter		Up to 3 Sc	olarEdge Energy Ba	nk, up to 2 LG RESU	J Prime		
Continuous Power [®]	6000	7600		100	000		W
Peak Power [®]	6000	7600		100	000		W
Max Input Current	16	20		26	5.5		Adc
2-pole Disconnection			Y	es			
SMART ENERGY CAPABILITIES							
Consumption Metering			Built	- in®			Ī
Backup & Battery Storage	With Ba	ckup Interface (pu	chased separately)	for service up to 20	00A; Up to 3 inverte	ers	
EV Charging			Direct connection t	o Smart EV charger	E C		
ADDITIONAL FEATURES	*						
Supported Communication Interfaces		RS485, Ethernet, Cellular®, Wi-Fi (optional), SolarEdge Energy Net (optional)					
Revenue Grade Metering, ANSI C12.20			Built	- in ^{ia)}	7.11		
Integrated AC, DC and Communication Connection Unit			Υ	es			
Inverter Commissioning	With the	SetApp mobile app	lication using built-	in Wi-Fi Access Poir	nt for local connecti	on	
DC Voltage Rapid Shutdown (PV and Battery)		Yes, accordin	g to NEC 2014, NEC	2017 and NEC 202	0 690.12		
STANDARD COMPLIANCE							
Safety		UL1741, UL1741 SA	A, UL1741 PCS, UL16	99B, UL1998, UL95	40, CSA 22.2		
Grid Connection Standards			IEEE1547, Rul	e 21, Rule 14H			
Emissions			FCC part	15 class B			
INSTALLATION SPECIFICATIONS	<u>0</u> :						
AC Output and EV AC Output Conduit Size / AWG Range			1" maximum	/ 14-4 AWG			
DC Input (PV and Battery) Conduit Size / AWG Range	-		1" maximum	/14-6 AWG			
Dimensions with Connection Unit ($H \times W \times D$)	17.7×1	14.6 x 6.8 / 450 x 37	0 x 174	17.7 x 14.6 x 6.8 / 450 x 370 x 174 17.7 x 14.6 x 6.8 / 450 x 370 x 174*	17.7 x 14.6 x 6.8 /	450 x 370 x 174	in/m
Weight with Connection Unit		26 / 11.8		26 / 11.8 41.7 / 18.9*	41.7	/ 18.9	lb/kg
Noise	< 25	< 25 < 50*	< 25		< 50		dBA
Cooling	Natural Convection						
Operating Temperature Range	-40 to +140 / -40 to +60 pt		°F/°C				
Protection Rating	NEMA 4						

⁽⁶⁾ The part numbers SExxxxxH-USxXXxxxx only support the SolarEdge Energy Bank. The part numbers SExxxxXH-USxXXxxxx support both SolarEdge Energy Bank and LG RESU Prime batteries



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SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

⁽⁷⁾ Discharge power is limited up to the inverter rated AC power for on-grid and backup applications
(8) For consumption metering current transformers should be ordered separately. SECT-SPL-22SA-T-20 or SEACT0750-400NA-20 units per box. Revenue grade metering is only for production metering.

⁽⁹⁾ Information concerning the Data Plan's terms & conditions is available in the following link: https://www.solaredge.com/sites/default/files/se-communication-plan-terms-and-conditions-eng.pdf
(10) Full power up to at least 50°C / 122°F; for power de-rating information refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf

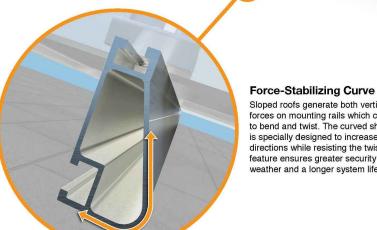


penetrations and the amount

of installation time.

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



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.

Corrosion-Resistant Materials



Compatible with Flat & Pitched Roofs



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

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

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.



XR10 is a sleek, low-profile mounting rail, designed for regions with light or no snow. It achieves 6 foot spans, while remaining light and economical.

- 6' spanning capability
- Moderate load capability
- Clear anodized finish
- Internal splices available



XR100

XR100 is the ultimate residential mounting rail. It supports a range of wind and snow conditions, while also maximizing spans up to 8 feet.

- · 8' spanning capability
- · Heavy load capability Clear & black anodized finish
- · Internal splices available



XR1000

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

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

Rail Selection

The following table was prepared in compliance with applicable engineering codes and standards. Values are based on the following criteria: ASCE 7-10, Roof Zone 1, Exposure B, Roof Slope of 7 to 27 degrees and Mean Building Height of 30 ft. Visit IronRidge.com for detailed span tables and certifications.

Lo	ad			Rail Span			
Snow (PSF)	Wind (MPH)	4'	5' 4"	6'	8'	10'	12'
	100						
None	120						
None	140	XR10		XR100		XR1000	
	160						
	100						
10-20	120						
10-20	140						
	160						
30	100						
30	160						
40	100						
40	160						
50-70	160						
80-90	160						



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SHEET SIZE ANSI B

11" X 17"

SHEET NUMBER

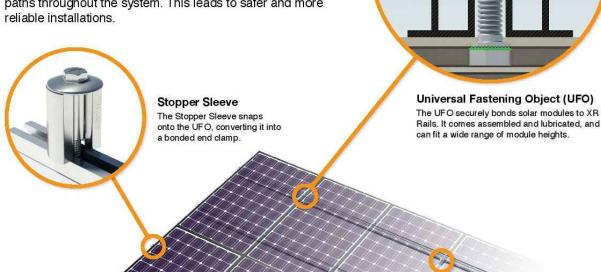


UFO Family of Components

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



Bonded Splice Each Bonded Splice uses

self-drilling screws to form a secure connection. No bonding strap needed.

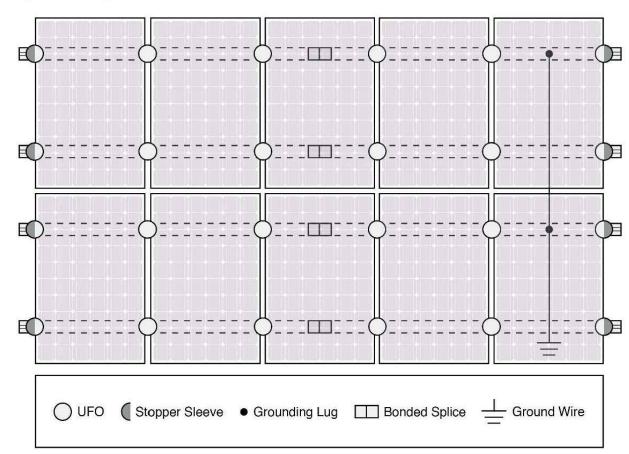


Grounding Lug A single Grounding Lug connects an entire row of PV modules to the grounding conductor.

Bonded Attachments

The bonding bolt attaches and bonds the L-foot to the rail. It is installed with the same socket as the rest of the

System Diagram



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.



Cross-System Compatibility				
Feature	Flush Mount	Tilt Mount	Ground Mount	
XR Rails	•	•	XR1000 Only	
UFO/Stopper	~	~	~	
Bonded Splice	~	~	N/A	
Grounding Lugs	1 per Row	1 per Row	1 per Array	
Microinverters & Power Optimizers	Darfon - M	0-72, M250-60, M IIG240, MIG300, C P320, P400, P405		
Fire Rating	Class A	Class A	N/A	
Modules	The second was a second second	ated with over 400 lation manuals for		



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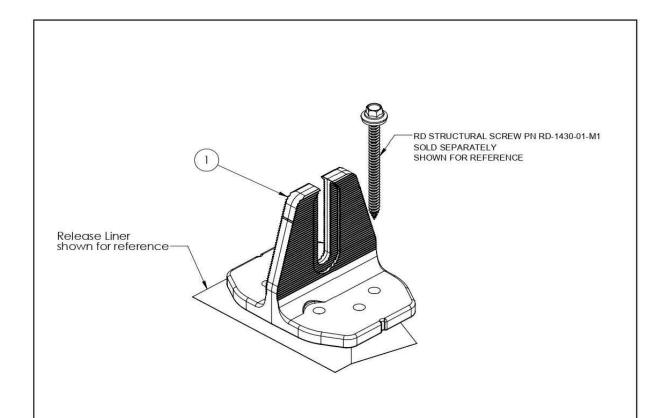
SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER



QuickMount® Halo UltraGrip



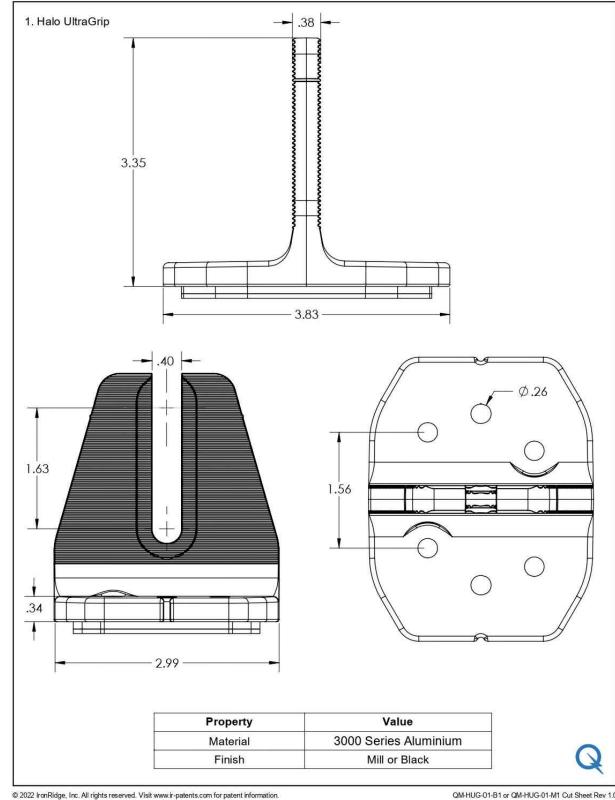
ITEM NO	DESCRIPTION	QTY IN KIT
1	QM Halo UltraGrip(Mill or Black)	1

PART NUMBER	DESCRIPTION
QM-HUG-01-M1	Halo UltraGrip - Mill
QM-HUG-01-B1	Halo UltraGrip - Black



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QM-HUG-01-B1 or QM-HUG-01-M1 Cut Sheet Rev 1.0



QM-HUG-01-B1 or QM-HUG-01-M1 Cut Sheet Rev 1.0

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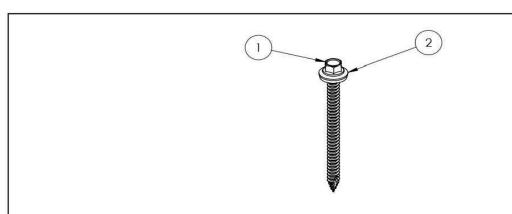
ANSI B 11" X 17"

SHEET NUMBER





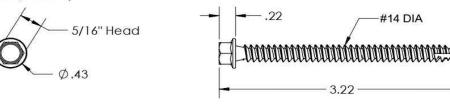
QuickMount® RD Structural Screw



ITEM NO	DESCRIPTION	QTY IN KIT
1	Self Drilling Screw, #14, Wood Tip	1
2	Washer, EPDM Backed	1

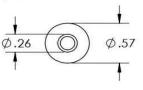
PART NUMBER	DESCRIPTION
RD-1430-01-M1	RD Structural Screw

1. Self Drilling Screw, #14, Wood Tip



Property	Value	
Material	300 Series Stainless Steel	
Finish	Clear	

2. Washer, EPDM Backed



Property	Value
Material	300 Series Stainless Steel
Finish	Clear



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



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SHEET NAME
EQUIPMENT
SPECIFICATION

SHEET SIZE

ANSI B

11" X 17"

SHEET NUMBER



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



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

REV

SHEET 2 OF 3

SIZE

SCALE: 1:2

DWG. NO.

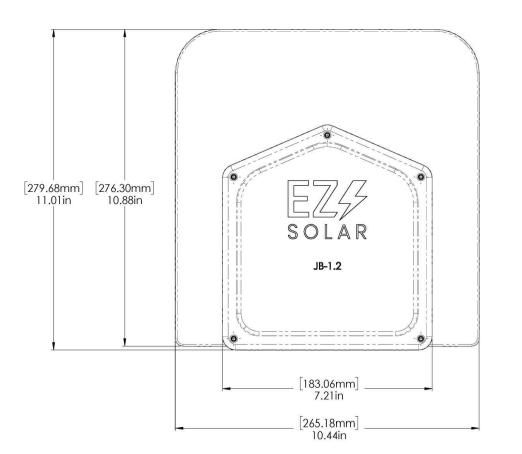
JB-1.2

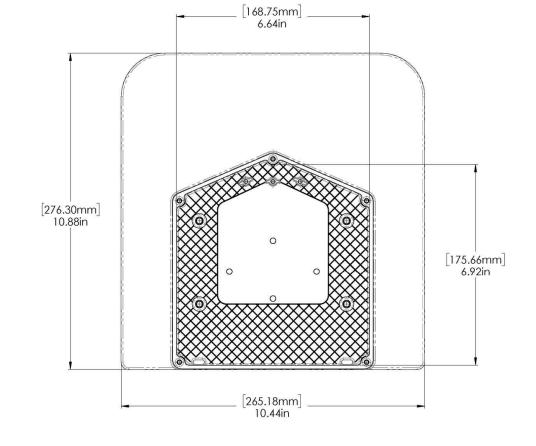
WEIGHT: 1.45 LBS

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.		REV
В	JB-1.2		
SCALE: 1:2	WEIGHT: 1.45 LBS	SHEE	T 1 0F 3

TORQUE SPECIFICATION:	15-20 LBS
CERTIFICATION:	UL 1741, NEMA 3R CSA C22.2 NO. 290
WEIGHT:	1.45 LBS







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DESCRIPTION	DATE REV			
INITIAL DESIGN	09/25/2023			

PROJECT NAME & ADDRESS

ABBIE TRIVITT RESIDENCE

115 NORTHVIEW DR, SANFORD, NC 27332

DRAWN BY **ESR**

SHEET NAME **EQUIPMENT SPECIFICATION**

> SHEET SIZE ANSI B

11" X 17" SHEET NUMBER

PV-17



[72.53mm] _ 2.86in

