PHOTOVOLTAIC ROOF MOUNT SYSTEM

18 MODULES-ROOF MOUNTED - 7.110 kW DC, 6.000 kW AC

136 PARKVIEW LN, LILLINGTON, NC 27546

PROJECT DATA

PROJECT ADDRESS 136 PARKVIEW LN, LILLINGTON, NC 27546

OWNER:

KYLE ECKLEY

ESR

DESIGNER:

SCOPE: 7.110 KW DC ROOF MOUNT SOLAR PV SYSTEM WITH

18 MISSION SOLAR: MSE395SX9R 395W

PV MODULES WITH

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

INVERTER

AUTHORITIES HAVING JURISDICTION: BUILDING: HARNETT COUNTY ZONING: HARNETT COUNTY UTILITY: SOUTH RIVER EMC

SHEET INDEX

PV-1 COVER SHEET PV-2 SITE PLAN

PV-2 SITE PLAN
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SIGNATURE

GENERAL NOTES

- 1. ALL COMPONENTS ARE UL LISTED AND CEC CERTIFIED, WHERE WARRANTED.
- 2. 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.
- 4. 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.
- 5. 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.
- 7. A GROUNDING ELECTRODE SYSTEM IN ACCORDANCE WITH CEC 690.47 AND 250.50 THROUGH 60 AND 250-166 SHALL BE PROVIDED. PER NEC GROUNDING ELECTRODE SYSTEM OF EXISTING BUILDING MAY BE USED AND BONDED TO THE SERVICE ENTRANCE. IF EXISTING SYSTEM IS INACCESSIBLE OR INADEQUATE A SUPPLEMENTAL GROUNDING ELECTRODE WILL BE USED AT THE INVERTER LOCATION CONSISTING OF A UL LISTED 8 FT. GROUND ROD WITH ACORN CLAMP. GROUNDING ELECTRODE CONDUCTORS SHALL BE NO LESS THAN #8 AWG AND NO LARGER THAN #6 AWG COPPER AND BONDED TO THE EXISTING GROUNDING ELECTRODE TO PROVIDE FOR A COMPLETE SYSTEM.
- 8. PHOTOVOLTAIC MODULES ARE TO BE CONSIDERED NON-COMBUSTIBLE
- 9. PHOTOVOLTAIC INSTALLATION WILL NOT OBSTRUCT ANY PLUMBING. MECHANICAL, OR BUILDING ROOF VENTS.
- ALL WIRING MUST BE PROPERLY SUPPORTED BY DEVICES OR MECHANICAL MEANS DESIGNED AND LISTED FOR SUCH USE.
 WIRING MUST BE PERMANENTLY AND COMPLETELY HELD OFF THE ROOF SURFACE.
- 11. ALL SINAGE TO BE PLACED IN ACCORDANCE WITH THE LOCAL BUILDING CODE. IF EXPOSED TO SUNLIGHT, IT SHALL BE UV RESISTANT. ALL PLAQUES AND SINAGE WILL BE INSTALLED AS REQUIRED BY THE NEC AND AHJ.
- 12. INVERTER(S) USED IN UNGROUNDED SYSTEM SHALL BE UL 1741 LISTED.
- 13. THE INSTALLATION OF EQUIPMENT AND ALL ASSOCIATED WIRING AND INTERCONNECTION SHALL BE PERFORMED ONLY BY QUALIFIED PERSONS [NEC 690.4(C)]
- 14. ALL OUTDOOR EQUIPMENT SHALL BE NEMA 3R RATED (OR BETTER), INCLUDING ALL ROOF MOUNTED TRANSITION BOXES AND SWITCHES.
- 15. ALL EQUIPMENT SHALL BE PROPERLY GROUNDED AND BONDED IN ACCORDANCE WITH NEC ARTICLE 250.
- 16. SYSTEM GROUNDING SHALL BE IN ACCORDANCE WITH NEC 690.41.
- 17. PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION IN ACCORDANCE WITH NEC 690.12
- 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.

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

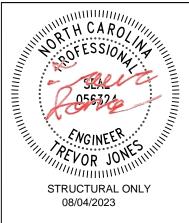


TOP TIER

TOP TIER SOLAR SOLUTIONS

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

REVISIONS					
DESCRIPTION	DATE	REV			
INITIAL DESIGN	08/04/2023				



PROJECT NAME & ADDRESS

KYLE ECKLEY RESIDENCE 136 PARKVIEW LN, LILLINGTON, NC 27546

DRAWN BY

SHEET NAME

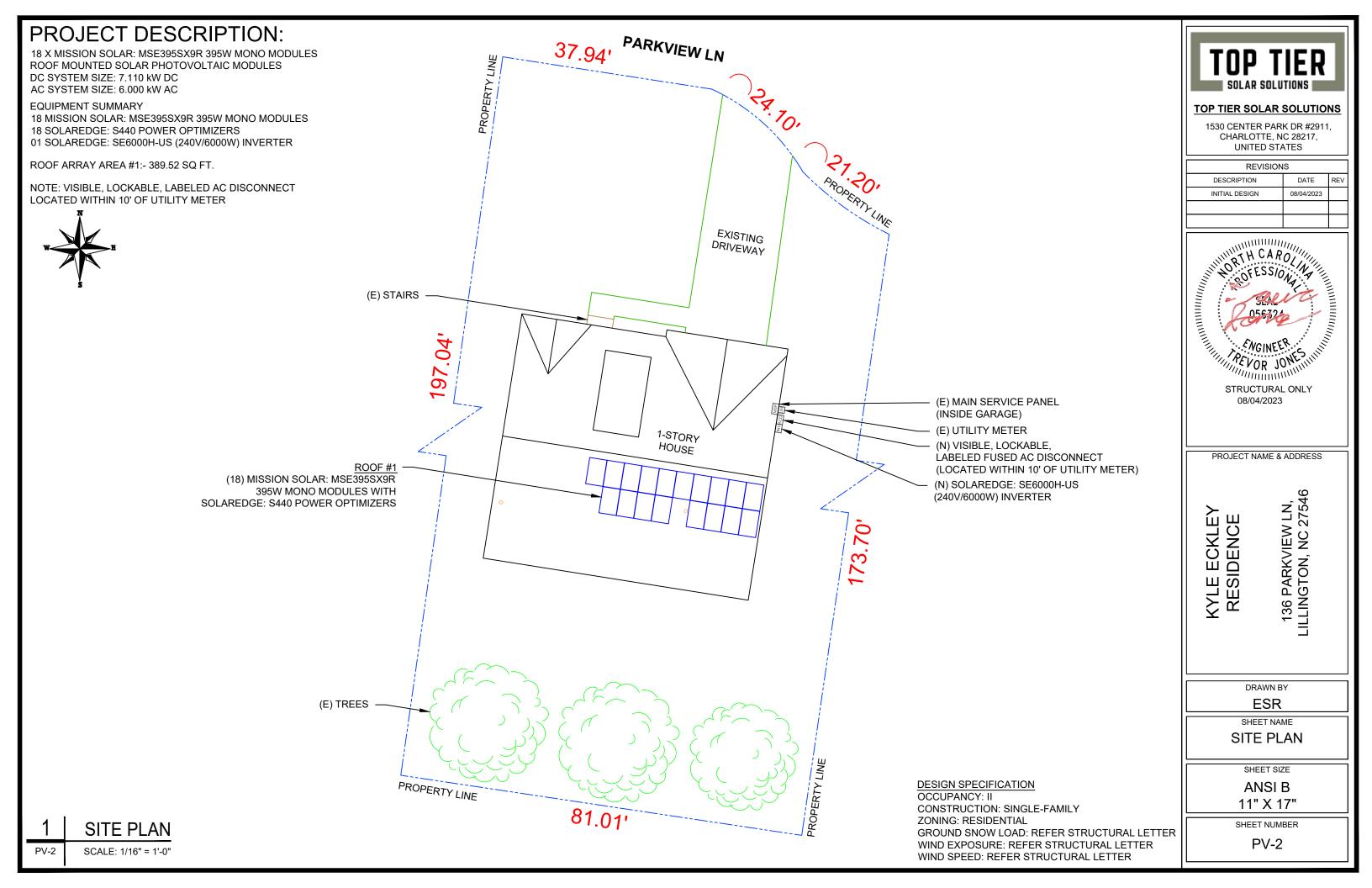
COVER SHEET

SHEET SIZE

ANSI B

11" X 17"

SHEET NUMBER



MODULE TYPE, DIMENSIONS & WEIGHT

NUMBER OF MODULES = 18 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

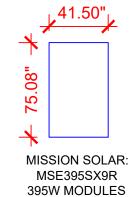


			YER
		1 LA	YER
F ROOF LES PITCH	$I \Delta / I M I I I H$	TRUSS SIZE	TRUSS SPACING
33°	189°	2"X4"	24"
	33°	33° 189°	33° 189° 2"X4"

ARRAY AREA & ROOF AREA CALC'S

TOTAL PV ARRAY	TOTAL ROOF	ROOF
AREA	AREA	AREA COVERED BY
(SQ. FT.)	(Sq. Ft.)	ARRAY (%)
389.52	2641.40	15

INITIAL DESIGN OSESSION NOTIFICATION OF ESSION OF ESSION



LEGEND

- JUNCTION BOX

- INVERTER

- AC DISCONNECT

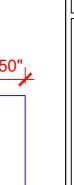
UM - UTILITY METER

- MAIN SERVICE PANEL - VENT, ATTIC FAN (ROOF OBSTRUCTION)

- ROOF ATTACHMENT

- TRUSS

- CONDUIT



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STRUCTURAL ONLY 08/04/2023

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08/04/2023

DESCRIPTION

DRAWN BY **ESR**

KYLE ECKLEY RESIDENCE

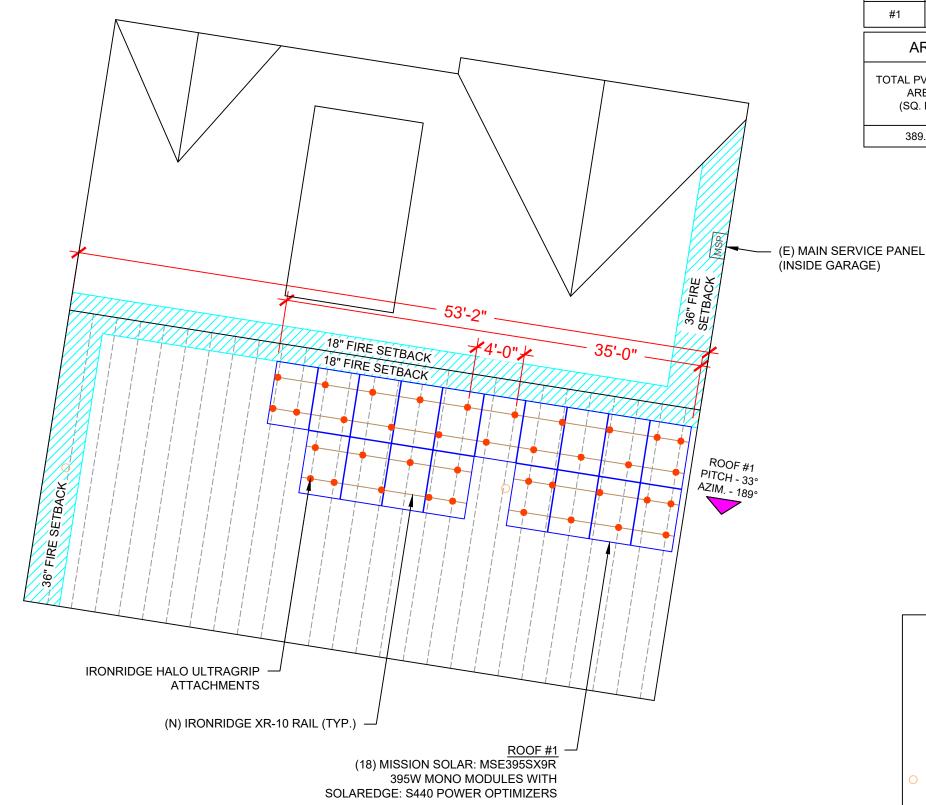
SHEET NAME **ROOF PLAN & MODULES**

> SHEET SIZE **ANSI B**

11" X 17"

SHEET NUMBER

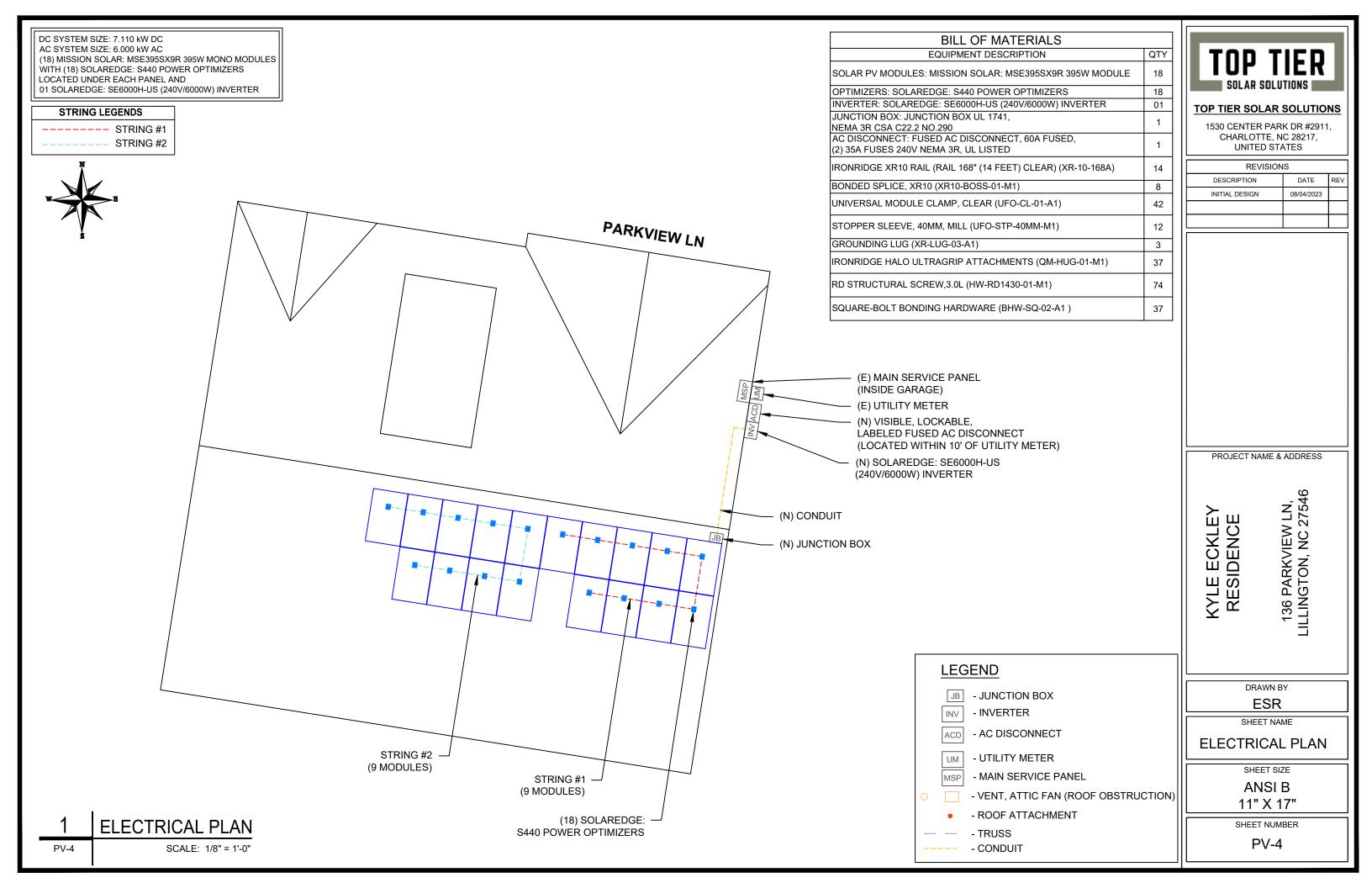
PV-3

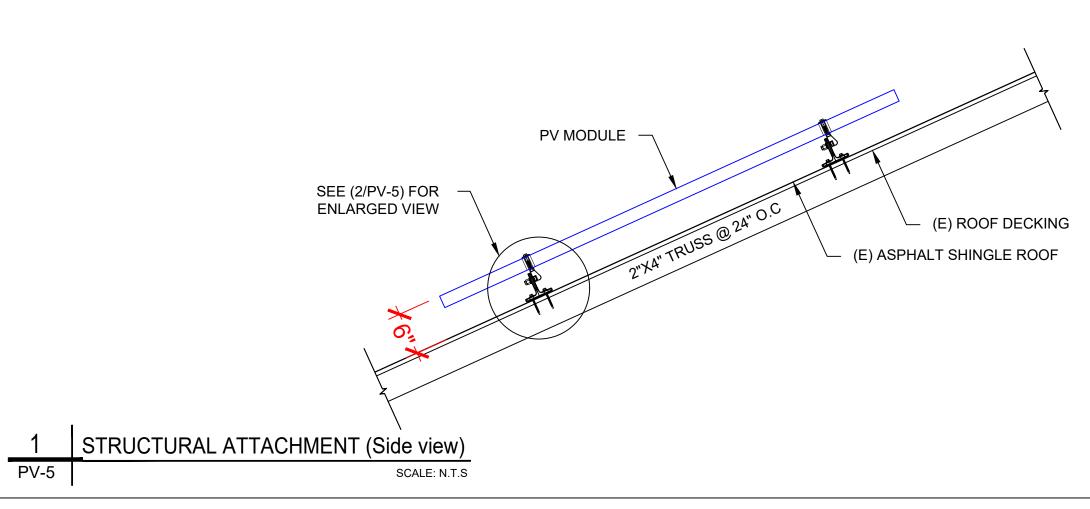


ROOF PLAN & MODULES

PV-3

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



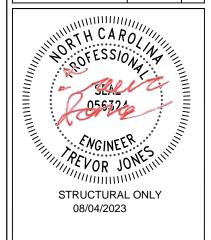




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SHEET NAME

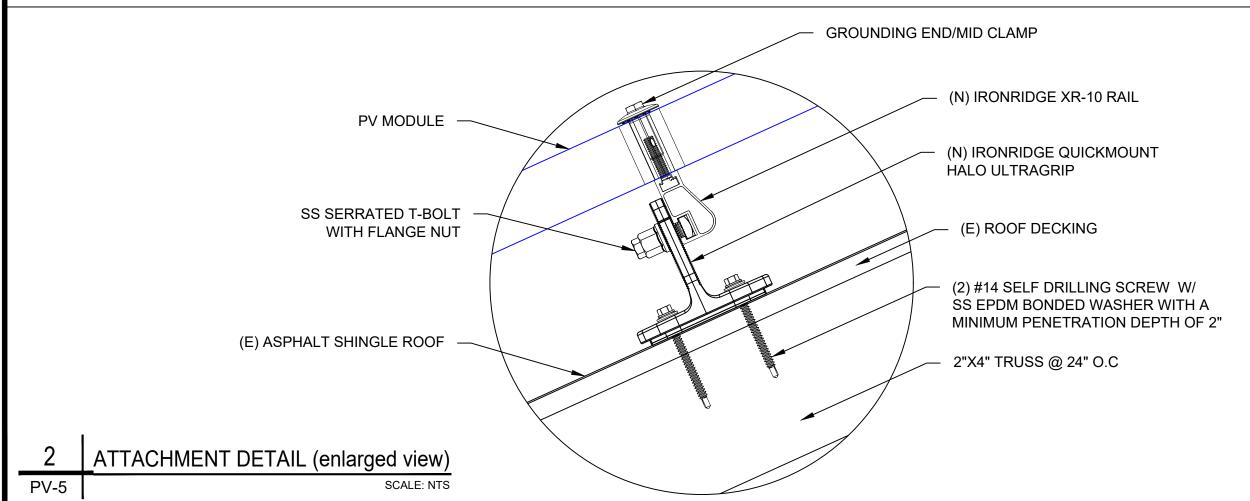
STRUCTURAL DETAIL

SHEET SIZE

ANSI B

11" X 17"

SHEET NUMBER



DC SYSTEM SIZE: 7.110 kW DC AC SYSTEM SIZE: 6.000 kW AC

18) MISSION SOLAR: MSE395SX9R 395W MONO MODULES WITH (18) SOLAREDGE: S440 POWER OPTIMIZERS LOCATED UNDER EACH PANEL (240V) AND (01) SOLAREDGE: SE6000H-US (240V/6000W) INVERTER (2) STRINGS OF 9 MODULES ARE CONNECTED IN SERIES

BACKFEED BREAKER CALCULATION (120% RULE): (MAIN BUS X 1.2 - MAIN BREAKER) >= (PV BREAKER) (200A X 1.2 - 200A) >= (PV BREAKER) (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.

NOTE: CONDUIT TO BE UL LISTED FOR

WET LOCATIONS AND UV PROTECTED

#10AWG - PV WIRE/USE-2

CU,THWN-2

CU,THWN-2

CU,THWN-2 N

CU,THWN-2

CU,THWN-2 N

CU,THWN-2 GND

CU,THWN-2 GND

CU,THWN-2 GND

#6AWG -

#10AWG -

#10AWG -

#8AWG -

#8AWG -#10AWG -

#8AWG -

#8AWG -

#10AWG -

CONDUCTOR INFORMATION

BARE COPPER IN FREE AIR

QTY

(4)

(4)

(1)

(2)

(2)

BOND EVERY OTHER RAIL WITH #6 BARE COPPER



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PROJECT NAME & ADDRESS

KYLE ECKLEY RESIDENCE

CONDUIT

SIZE

N/A

3/4"

3/4"

3/4"

CONDUIT TYPE

EMT OR LFMC IN ATTIC

EMT,LFMC OR PVC

EMT, LFMC OR PVC

136 PARKVIEW LN, LILLINGTON, NC 27546

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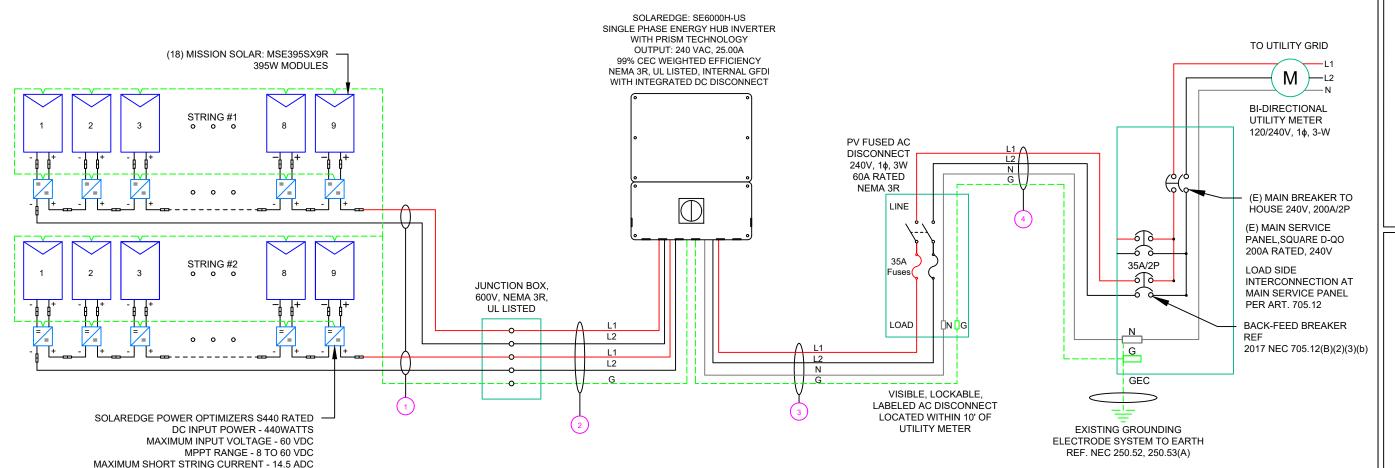
SHEET NAME

ELECTRICAL LINE DIAGRAM

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER PV-6



ELECTRICAL LINE DIAGRAM PV-6

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

SCALE: NTS

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)					

FULL LOAD

AMPS "FLA"

25

25

FULL LOAD

AMPS "FLA"

15.00

15.00

15.00

FLA*1.25 OCPD

31.25

31.25

SIZE (A)

35

35

FLA*1.25 OCPD

SIZE (A)

20

20

(A)

18.75

18.75

18.75

NEUTRAL SIZE

CU #8 AWG

CU #8 AWG

GROUND SIZE

BARE COPPER #6 AWG

CU #10 AWG

20 BARE COPPER #6 AWG

VOLTAGE

VOLTAGE

380

380

380

CIRCUIT

DESTINATION

AC DISCONNECT

CIRCUIT

DESTINATION

JUNCTION BOX

JUNCTION BOX

INVERTER

CIRCUIT ORIGIN

INVERTER

AC DISCONNECT

CIRCUIT ORIGIN

STRING 1

JUNCTION BOX

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

75°C

AMPACITY

50

50

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

PERCENT OF	NUMBER OF CURRENT
VALUES	CARRYING CONDUCTORS IN EMT
.80	4-6
.70	7-9
50	10-20

CONDUCTOR

CU #8 AWG

AMPACITY

(A)

35

35

35

PASS

PASS

38

38

40

0.91

0.91

CU #8 AWG

GROUND SIZE

CU #10 AWG

CU #10 AWG

CONDUCTOR SIZE

CU #10 AWG

CU #10 AWG

CU #10 AWG

AMPACITY CHECK #1 TEMP. (°C) AMBIENT TOTAL CC CONDUCTORS IN RACEWAY CHECK #1 TEMP. (°C) AMBIENT TEMPERATURE NEC 310.15(B)(2)(a) DERATION FACTOR FOR CONDUCTORS FOR CONDUCTORS 310.15(B)(3)(a) DERATION FACTOR FOR CONDUCTORS AMPACITY CHECK #2 PER RACEWAY NEC 310.15(B)(3)(a) AMPACITY CHECK #2 AMPACITY CHECK #2 CONDUCTOR RESISTANCE (OHM/KFT) FEEDER CONDUCTOR RESISTANCE (OHM/KFT) FEEDER CONDUCTOR RESISTANCE (OHM/KFT) FIGURE AMPACITY CHECK #2 CONDUCTOR RESISTANCE (OHM/KFT) FEEDER CONDUCTOR RESISTANCE (OHM/KFT) FE		DEPATION FACTOR DEPATION FACTOR 00°			AC FEEDER CALCULATIONS								
		AMPACITY (A) FOR AMBIENT FOR CONDUCTORS FOR CONDUCT	ACITY AMPACITY ATED CHECK #2	LENGTH	RESISTANCE	DROP AT	CONDUIT	CONDUIT FILL (%)					
PASS 38 2 55 0.91 1 50.05 PASS 5 0.778 0.081	PASS	55 0.91 1 50.0	.05 PASS	5	0.778	0.081	3/4" EMT	24.5591					
PASS 38 2 55 0.91 1 50.05 PASS 5 0.778 0.081	PASS	55 0.91 1 50.0	.05 PASS	5	0.778	0.081	3/4" EMT	24.5591					

DC FEEDER CALCULATIONS												
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)	CONDUCTOR RESISTANCE (OHM/KFT)	VOLTAGE DROP AT FLA (%)	CONDUIT SIZE	CONDUIT FILL (%)
PASS	38	2	40	0.91	1	36.4	PASS	5	1.24	0.049	N/A	#N/A

0.8

36.4

29.12

PASS

PASS

	20	0.196
	String 1 V	0.245
Γ	String 2 V	0.245

1.24

0.049

N/A #N/A 3/4" EMT 19.79362

CUMULATIVE VOLTAGE 0.162

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DRAWN BY **ESR**

SHEET NAME

WIRING CALCULATIONS

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

PV-7

ELECTRICAL NOTES

- ALL EQUIPMENT TO BE LISTED BY UL OR OTHER NRTL, AND LABELED FOR ITS APPLICATION.
- ALL CONDUCTORS SHALL BE COPPER, RATED FOR 600 V AND 90 DEGREE C WET ENVIRONMENT.
- 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.
- WORKING CLEARANCES AROUND ALL NEW AND EXISTING ELECTRICAL EQUIPMENT SHALL COMPLY WITH NEC 110.26.
- DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS AND ACCESSORIES TO FULFILL APPLICABLE CODES AND STANDARDS
- WHERE SIZES OF JUNCTION BOX, RACEWAYS, AND CONDUITS ARE NOT SPECIFIED, THE CONTRACTOR SHALL SIZE THEM ACCORDINGLY.
- ALL WIRE TERMINATIONS SHALL BE APPROPRIATELY LABELED AND READILY VISIBLE.
- MODULE GROUNDING CLIPS TO BE INSTALLED BETWEEN MODULE FRAME AND MODULE SUPPORT RAIL, PER THE GROUNDING CLIP MANUFACTURER'S INSTRUCTION.
- MODULE SUPPORT RAIL TO BE BONDED TO CONTINUOUS COPPER G.E.C. VIA WEEB LUG OR ILSCO GBL-4DBT LAY-IN
- TEMPERATURE RATINGS OF ALL CONDUCTORS, TERMINATIONS, BREAKERS, OR OTHER DEVICES ASSOCIATED WITH THE SOLAR PV SYSTEM SHALL BE RATED FOR AT LEAST 75 DEGREE C.

PHOTOVOLTAIC POWER SOURCE

EVERY 10' ON CONDUIT & ENCLOSURES

LABEL- 1: 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

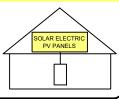
WARNING

POWER SOURCE OUTPUT CONNECTION. DO NOT **RELOCATE THIS OVERCURRENT DEVICE**

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: LABEL LOCATION: AC DISCONNECT MAIN SERVICE PANEL (ONLY IF SOLAR IS BACK-FED) CODE REF: NEC 690.56(C)(2)

DC DISCONNECT

LABEL - 8: LABEL LOCATION: CODE REF: NEC 690.13(B)

AC DISCONNECT PHOTOVOLTAIC SYSTEM **POWER SOURCE**

NOMINAL OPERATING AC VOLATGE 240 V

RATED AC OUTPUT CURRENT

25.00 A

LABEL- 9: 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 LOCATION: ON THE RIGHT SIDE OF THE INVERTER CODE REF: NEC 690.53

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DRAWN BY **ESR**

SHEET NAME

LABELS

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

MSE PERC 66







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

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
- 40 mm frame



BAA Compliant for Government Projects

- Buy American Act
- American Recovery & Reinvestment Act

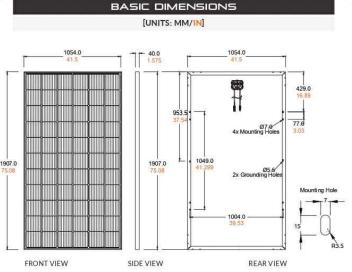




products in your area,

Class Leading 390-400W

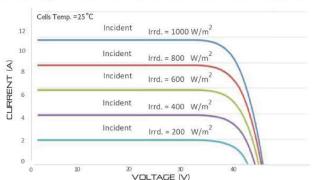
MSE PERC 66



CURRENT-VOLTAGE CURVE

MSE385SX9R: 385WP, 66 CELL SOLAR MODULE

Current-voltage characteristics with dependence on irradiance and module temperature



CERTIFICATIONS AND TESTS				
61215, 61730, 61701				
61730				
	61215, 61730, 61701			







Mission Solar Energy

8303 S. New Braunfels Ave., San Antonio, Texas 78235 www.missionsolar.com | info@missionsolar.com

Mission Solar Energy reserves the right to make specification changes without notice. C-SA2-MKTG-0027 REV 4 03/18/2022

PRODUCT TYPE	MSE	xxxSX	9R (xxx = P	max)	
Power Output	P _{max}	Wp	390	395	400
Module Efficiency		%	19.4	19.7	19.9
Tolerance		%	0/+3	0/+3	0/+3
Short Circuit Current	Isc	Α	11.19	11.24	11.31
Open Circuit Voltage	Voc	V	45.04	45.18	45.33
Rated Current	Imp	Α	10.63	10.68	10.79
Rated Voltage	Vmp	V	36.68	36.99	37.07
Fuse Rating		Α	20	20	20
System Voltage		V	1,000	1,000	1,000

TEMPERATURE COEFFICIENTS			
Normal Operating Cell Temperature (NOCT)	43.75°C (±3.7%)		
Temperature Coefficient of Pmax	-0.367%/°C		
Temperature Coefficient of Voc	-0.259%/°C		
Temperature Coefficient of Isc	0.033%/°C		

OPERATIN	S CONDITIONS
Maximum System Voltage	1,000Vdc
Operating Temperature Range	-40°F to 185°F (-40°C to +85°C)
Maximum Series Fuse Rating	20A
Fire Safety Classification	Type 1*
Front & Back Load (UL Standard)	Up to 5,400 Pa front and 3,600 Pa back load, Tested to UL 61730
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

	, the type of mounting used, pitch and roof composition.
-013018	CHANICAL 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.	Height 47.56 in	\ /1	Width 46 in	Length 77 in (195.58 cm)
(572 kg)	(120.80 cm) (1	16.84 cm)	(195.58)

www.missionsolar.com | info@missionsolar.com

TOP TIER SOLAR SOLUTIONS

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

REVISIONS			
DESCRIPTION	DATE	REV	
INITIAL DESIGN	08/04/2023		

PROJECT NAME & ADDRESS

KYLE ECKLEY RESIDENCE

DRAWN BY

136 PARKVIEW LN, ILLINGTON, NC 27546

SHEET NAME **EQUIPMENT SPECIFICATION**

ESR

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

PV-9



C-SA2-MKTG-0027 REV 4 03/18/2022

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Power Optimizer For Residential Installations

S440, S500



Enabling PV power optimization at the module level

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

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



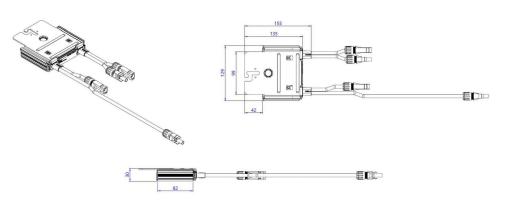
/ Power Optimizer For Residential Installations S440, S500

	S440	S500	UNIT
		•	,
Rated Input DC Power ⁽¹⁾	440	500	W
Absolute Maximum Input Voltage (Voc)		50	Vdc
MPPT Operating Range	8 -	- 60	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		П	
OUTPUT DURING OPERATION			
Maximum Output Current	, and the second	15	Adc
Maximum Output Voltage	(50	Vdc
OUTPUT DURING STANDBY (POWER OPTIMIZER DIS	CONNECTED FROM INVERTER OF	R INVERTER OFF)	
Safety Output Voltage per Power Optimizer		1	Vdc
STANDARD COMPLIANCE			
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	Υ	'es	
Fire Safety	VDE-AR-E 210	00-712:2013-05	
INSTALLATION SPECIFICATIONS			
Maximum Allowed System Voltage	10	000	Vdc
Dimensions (W x L x H)	129 x 1	155 x 30	mm
Weight (including cables)	655	/ 1.5	gr / lb
Input Connector	M	C4 ⁽²⁾	
Input Wire Length		0.1	m
Output Connector	M	C4	
Output Wire Length	(+) 2.3	, (-) 0.10	m
Operating Temperature Range ⁽³⁾	-40 t	ro +85	°C
Protection Rating	IP68 / I	NEMA6P	
Relative Humidity	0 -	100	%

(2) For other connector types please contact SolarEdge
(3) For ambient temperature above +70°C / +158°F power de-rating is applied. Refer to Power Optimizers Temperature De-Rating Technical Note for more details

PV System Design Usi Inverter	ing a SolarEdge	Single Phase HD-Wave	Three Phase	Three Phase for 277/480V Grid	
Minimum String Length (Power Optimizers)	S440, S500	8	16	18	
Maximum String Length (Powe	er Optimizers)	25	50		
Maximum Nominal Power per	String ⁽⁴⁾	5700	11250 ⁽⁵⁾	12750(6)	W
Parallel Strings of Different Ler	aths or Orientations		Yes		

(4) If the inverters rated AC power ≤ maximum nominal power per string, then the maximum power per string will be able to reach up to the inverters maximum input DC power Refer to: https://www.solaredge.com/sites/default/files/se-power-optimizer-single-string-design-application-note.pdf
(5) For the 230/400V grid: it is allowed to install up to 13,500W per string when the maximum power difference between each string is 2,000W
(6) For the 277/480V grid: it is allowed to install up to 15,000W per string when the maximum power difference between each string is 2,000W
(7) It is not allowed to mix S-series and P-series Power Optimizers in new installations



CE RoHS

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136 PARKVIEW LN, LILLINGTON, NC 27546

DRAWN BY **ESR**

SHEET NAME **EQUIPMENT SPECIFICATION**

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

^{*} 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)



HOME BACKUP

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 upgrades to:
- 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 3300 @ 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 ¹²⁾			Hz
Maximum Continuous Output Current @ 240V	12.5	16	25	32	42	47.5	А
Maximum Continuous Output Current @ 208V	*	16	24	1 1	ñ	48.5	Α
GFDI Threshold							Α
Total Harmonic Distortion (THD)			.<	3			%
Power Factor			1, adjustable	-0.85 to 0.85			
Utility Monitoring.IslandingProtection,Country ConfigurableThresholds			Ye	es			
Charge Battery from AC (if allowed)			Ye	es .			
Typical Nighttime Power Consumption			<2	2,5			W
OUTPUT - AC BACKUP ⁽³⁾	10						
Rated AC Power in Backup Operation®	3000	3800	6000	7600	10000	10300	w
	=5/40000	7600*	211 -	10300*	11.54.36.34.42.	***************************************	Vac
AC L-L Output Voltage Range in Backup AC L-N Output Voltage Range in Backup							Vac
	105 - 132 55 - 60 - 65						0.000.00
AC Frequency Range in Backup (min - nom - max)		16	20 - 0	32		ľ	Hz
Maximum Continuous Output Current in Backup Operation	12.5	32*	25	43*	42	43	A
GFDI							Α
THD			<	5			%
OUTPUT - SMART EV CHARGER AC							
Rated AC Power			96	00			W
AC Output Voltage Range			211 -	264			Vac
On-Grid AC Frequency Range (min - nom - max)			59.3 - 6	0 - 60.5			Hz
Maximum Continuous Output Current @240V (grid, PV and battery)			4	0			Aac
INPUT - DC (PV AND BATTERY)			.,,				
Transformer-less, Ungrounded	Ĭ		Ye	2S			Ĭ
MaxInput Voltage			48	30			Vdc
Nom DC Input Voltage			38	30			Vdc
Reverse-Polarity Protection			Ye	es			
Ground-Fault Isolation Detection			600kΩ S				
INPUT - DC (PV)	-0			and the state of t			
Maximum DC Power @ 240V	6000	7600 15200*	12000	15200 22800*	22000	22800	W
Maximum DC Power @ 208V	F 5	6600	10000		2	20000	W
Maximum Input Current ⁽⁹ @ 240V	8.5	10.5 20*	16.5	20 31*	27	31	Adc
Maximum Input Current ⁽⁵⁾ @ 208V		9	13.5	-	:=	27	Adc
Maximum input current "@ 2007		=======================================	4	5	l.	1	Adc
200 1 M 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
Max. Input Short Circuit Current Maximum Inverter Efficiency	99			99.2			%
Max. Input Short Circuit Current	99		99	99.2		99 @ 240V 98.5 @ 208V	%

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PROJECT NAME & ADDRESS

KYLE ECKLEY RESIDENCE

136 PARKVIEW LN, LILLINGTON, NC 27546

DRAWN BY **ESR**

SHEET NAME **EQUIPMENT SPECIFICATION**

> SHEET SIZE ANSI B

11" X 17"

SHEET NUMBER

PV-11

solaredge.com

⁽i) These specifications apply to inverters with part numbers SExxxxH-USSNxxxxx 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 (5) A higher current source may be used; the inverter will limit its input current to the values stated

/ 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)		-			#		04
Supported Battery Types		Sol	arEdge Energy Ban	k, LG RESU Prime®			
Number of Batteries per Inverter		Up to 3 Sc	olarEdge Energy Bar	nk, up to 2 LG RESU	J Prime		
Continuous Power ⁱⁿ	6000	7600		100	000		W
Peak Power ^m	6000	7600		100	000		W
Max Input Current	16	20		26	6.5		Adc
2-pole Disconnection			Ye	PS.			
SMART ENERGY CAPABILITIES	A.						
Consumption Metering			Built	- in®			
Backup & Battery Storage	With Ba	ackup Interface (pur	chased separately)	for service up to 20	00A; Up to 3 inverte	ers	
EV Charging			Direct connection t	o Smart EV charge	r		
ADDITIONAL FEATURES	30						
Supported Communication Interfaces		RS485, Ethernet	, Cellular ⁹⁾ , Wi-Fi (o ₎	otional),SolarEdge I	Energy Net (optiona	al)	
Revenue Grade Metering, ANSI C12:20			Built	- in®			
Integrated AC, DC and Communication Connection Unit			Ye	PS#			
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	gto NEC 2014, NEC	2017 and NEC 202	20 690.12		
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	· · · · · · · · · · · · · · · · · · ·						
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 x	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		26/118		26 / 11.8 41.7 / 18.9*	41.7 ,	/ 18.9	lb/kg
Noise	< 25	< 25 < 50*	< 25		< 50		dBA
Cooling			Natural C	onvection			
Operating Temperature Range			-40 to +140/	-40 to +60 ^{ro}			°F/°C
Protection Rating			NEN	/A 4			



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> SHEET SIZE **ANSI B**

11" X 17"

SHEET NUMBER

⁽a) The part numbers sexxxxx+-Daxintxxxxx only support the solarizage energy bank. The part numbers as expected in writer firmware.

(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-225A-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

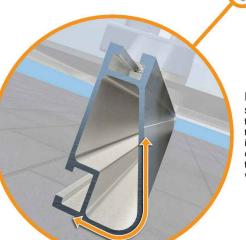


XR Rail Family

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.

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

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

Compatible with Flat & Pitched Roofs



XR Rails are compatible with FlashFoot and other pitched roof



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

Corrosion-Resistant Materials

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.





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ANSI B 11" X 17"

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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



Universal Fastening Object (UFO)

The UFO securely bonds solar modules to XR Rails. It comes assembled and lubricated, and can fit a wide range of module heights.



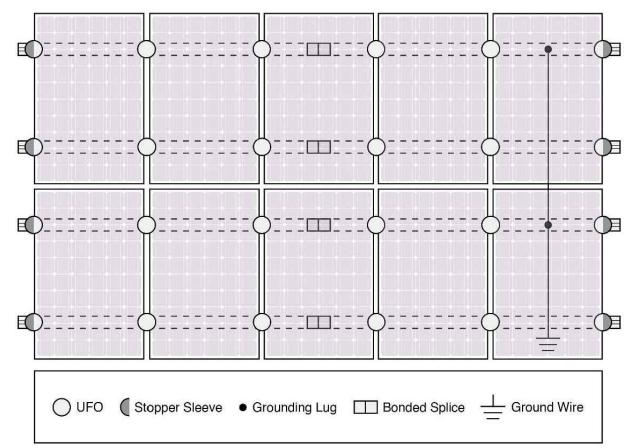
Grounding Lug

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.

Go to IronRidge.com/UFO

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, M2 IIG240, MIG300, G P320, P400, P405		
Fire Rating	Class A	Class A	N/A	
Modules		ated with over 400 lation manuals for		



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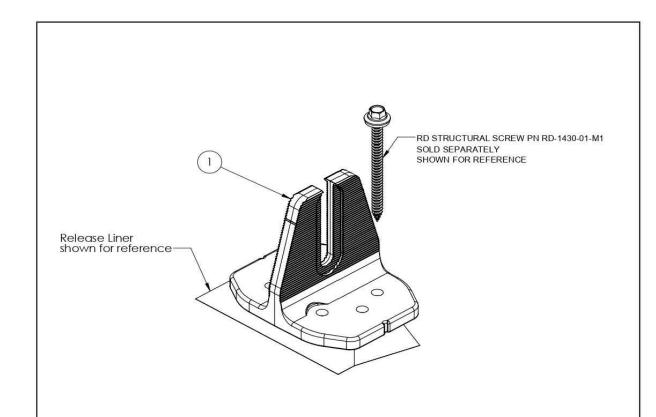
SHEET SIZE

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QuickMount® Halo UltraGrip



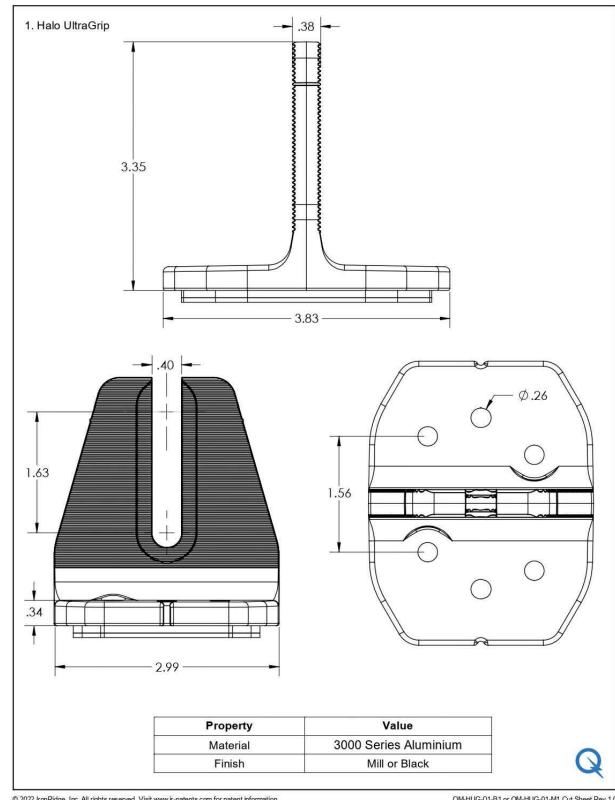
ITEM NO	DESCRIPTION	QTY IN KIT
1	QM Halo UltraGrip(Mill or Black)	1

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



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ESR SHEET NAME

EQUIPMENT SPECIFICATION

SHEET SIZE

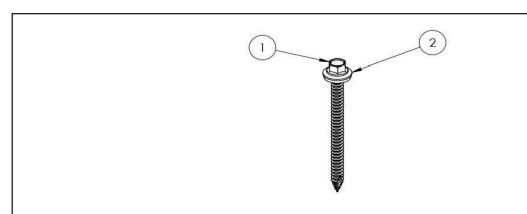
ANSI B 11" X 17"

SHEET NUMBER





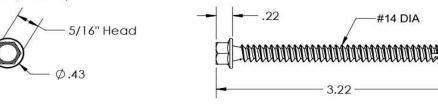
QuickMount® RD Structural Screw



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

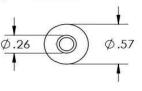
PART NUMBER	DESCRIPTION
RD-1430-01-M1	RD Structural Screw

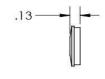
1. Self Drilling Screw, #14, Wood Tip



Property	Value 300 Series Stainless Stee	
Material		
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.

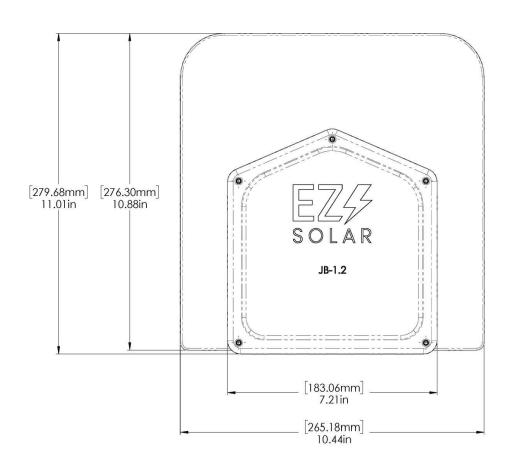
JB-1.2

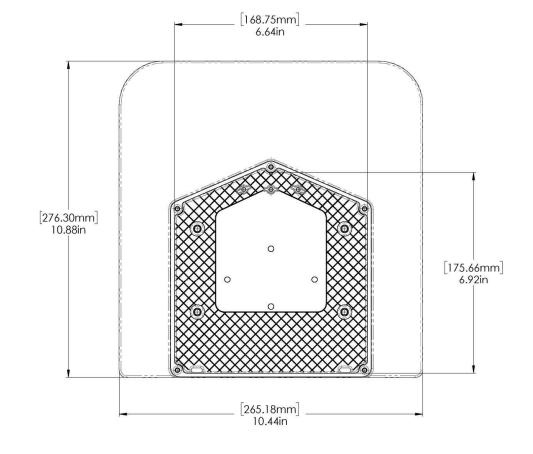
WEIGHT: 1.45 LBS

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







TOP TIER SOLAR SOLUTIONS

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

REVISIONS		
DESCRIPTION	DATE	REV
INITIAL DESIGN	08/04/2023	

PROJECT NAME & ADDRESS

KYLE ECKLEY RESIDENCE

136 PARKVIEW LN, LILLINGTON, NC 27546

DRAWN BY **ESR**

SHEET NAME **EQUIPMENT SPECIFICATION**

> SHEET SIZE ANSI B

11" X 17" SHEET NUMBER



[72.53mm] _ 2.86in

