PHOTOVOLTAIC ROOF MOUNT SYSTEM

24 MODULES-ROOF MOUNTED - 9.480 kW DC, 7.600 kW AC

93 GOLD CT, BROADWAY, NC 27505

PROJECT DATA

PROJECT

93 GOLD CT.

BROADWAY, NC 27505 **ADDRESS**

OWNER:

MAURICIO GONZALEZ

DESIGNER: ESR

SCOPE: 9.480 KW DC ROOF MOUNT SOLAR PV SYSTEM WITH

24 MISSION SOLAR: MSE395SX9R 395W

PV MODULES WITH

24 SOLAREDGE: S440 POWER OPTIMIZERS AND 01 SOLAREDGE: SE7600H-US (240V/7600W)

INVERTER

AUTHORITIES HAVING JURISDICTION: BUILDING: HARNETT COUNTY ZONING: HARNETT COUNTY UTILITY: DUKE ENERGY PROGRESS

SHEET INDEX

PV-1 **COVER SHEET**

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PV-3 **ROOF PLAN & MODULES** PV-4 **ELECTRICAL PLAN** PV-5 STRUCTURAL DETAIL PV-6 **ELECTRICAL LINE DIAGRAM**

PV-7 WIRING CALCULATIONS PV-8 LABFLS

PV-9+ **EQUIPMENT SPECIFICATIONS**

SIGNATURE

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 ROOFTOP MOUNTED PHOTOVOLTAIC PANELS AND MODULES SHALL BE TESTED, LISTED & IDENTIFIED IN ACCORDANCE WITH

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

- 20. WORK CLEARANCES AROUND ELECTRICAL EQUIPMENT WILL BE MAINTAINED PER NEC 110.26(A)(1), 110.26(A)(2) AND 110.26(A)(3).
- 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

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N۱	ssling Consulting,	PLLC	

Meadowbrook Drive Alpine UT 84004 North Carelina COA # P-2308 Signed 6/15/2023

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PROJECT NAME & ADDRESS

', 27505 RICIO GONZAL RESIDENCE 93 GOLD CT BROADWAY, NC 2

> DRAWN BY **ESR**

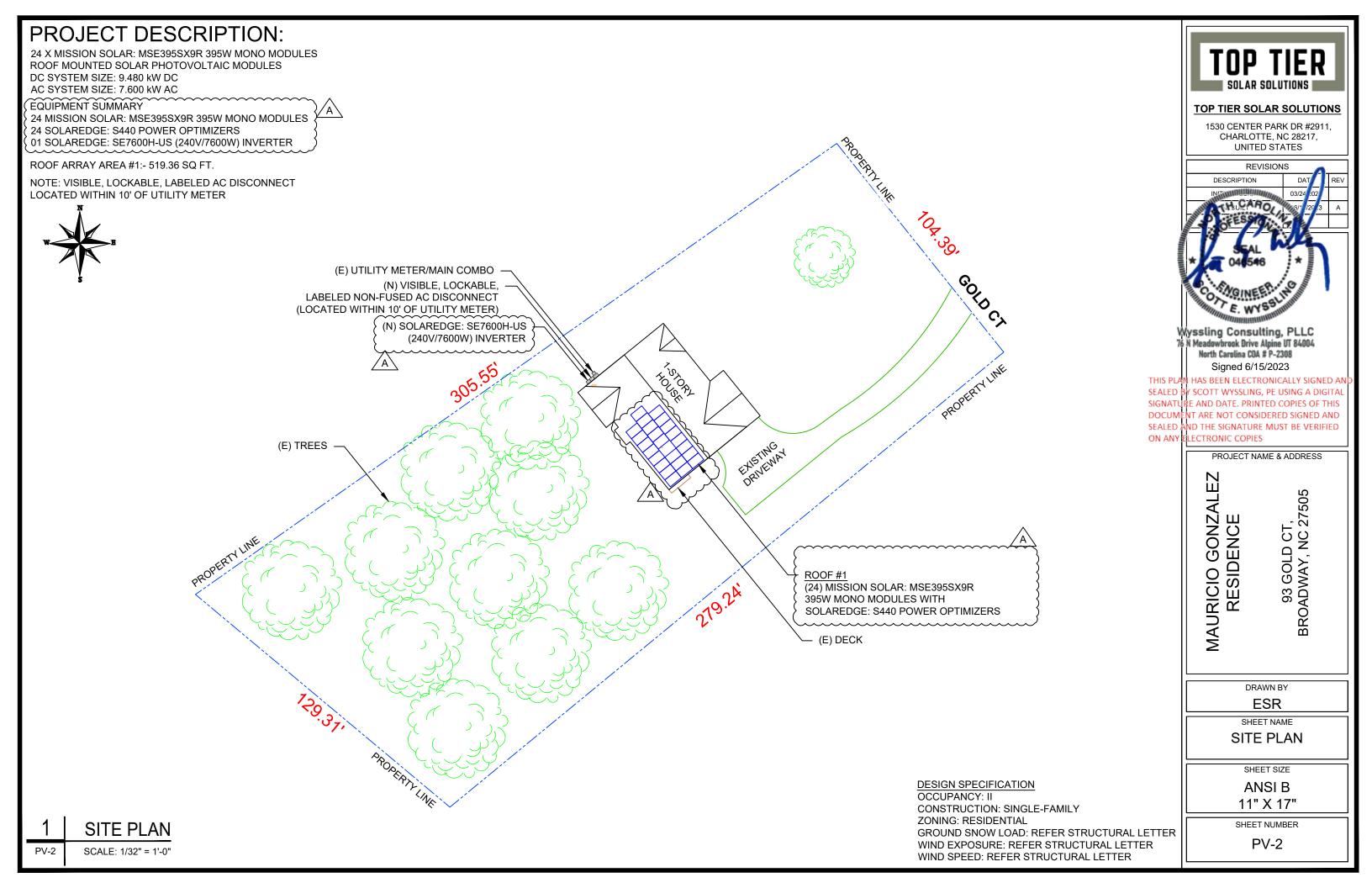
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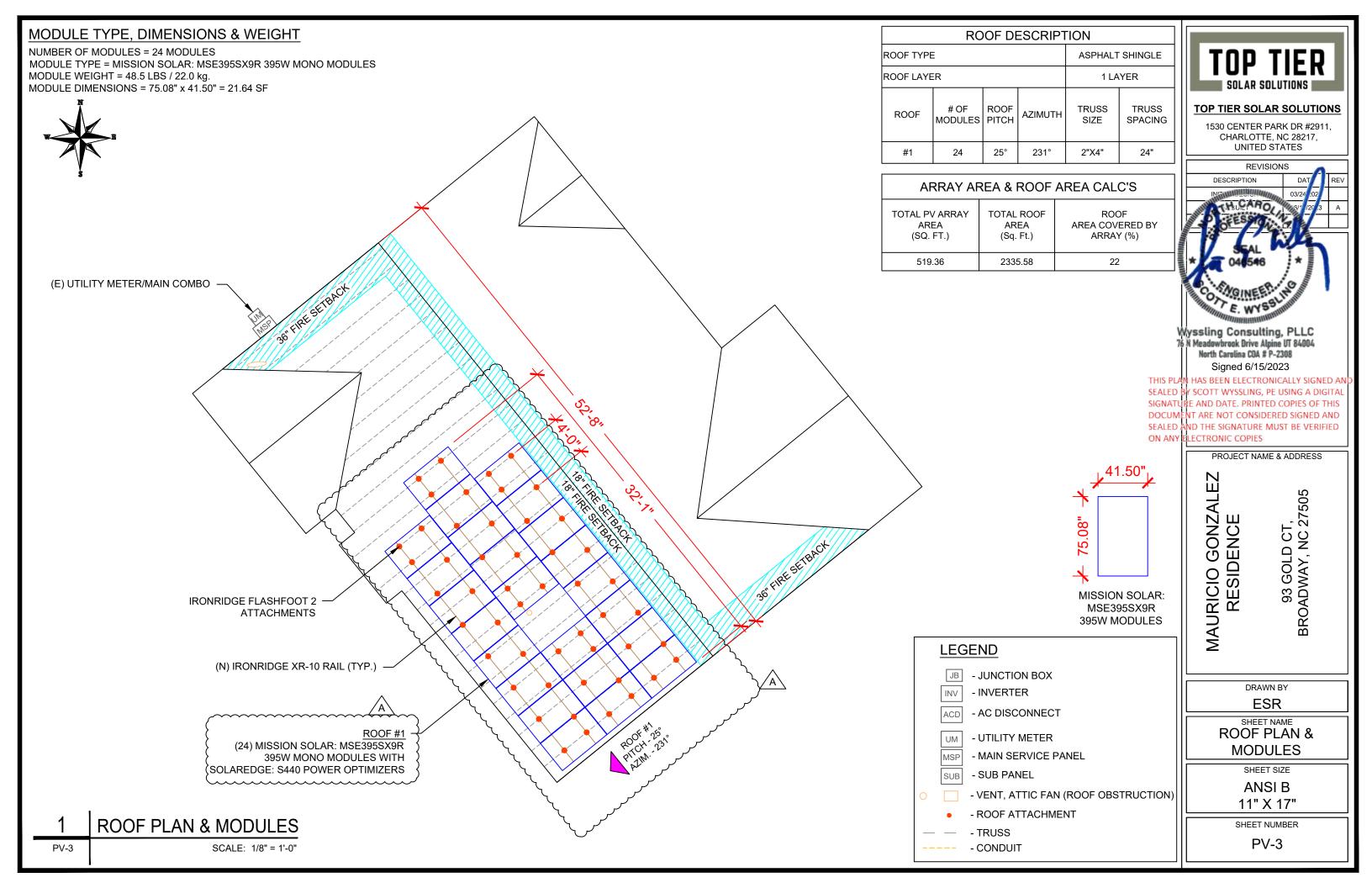
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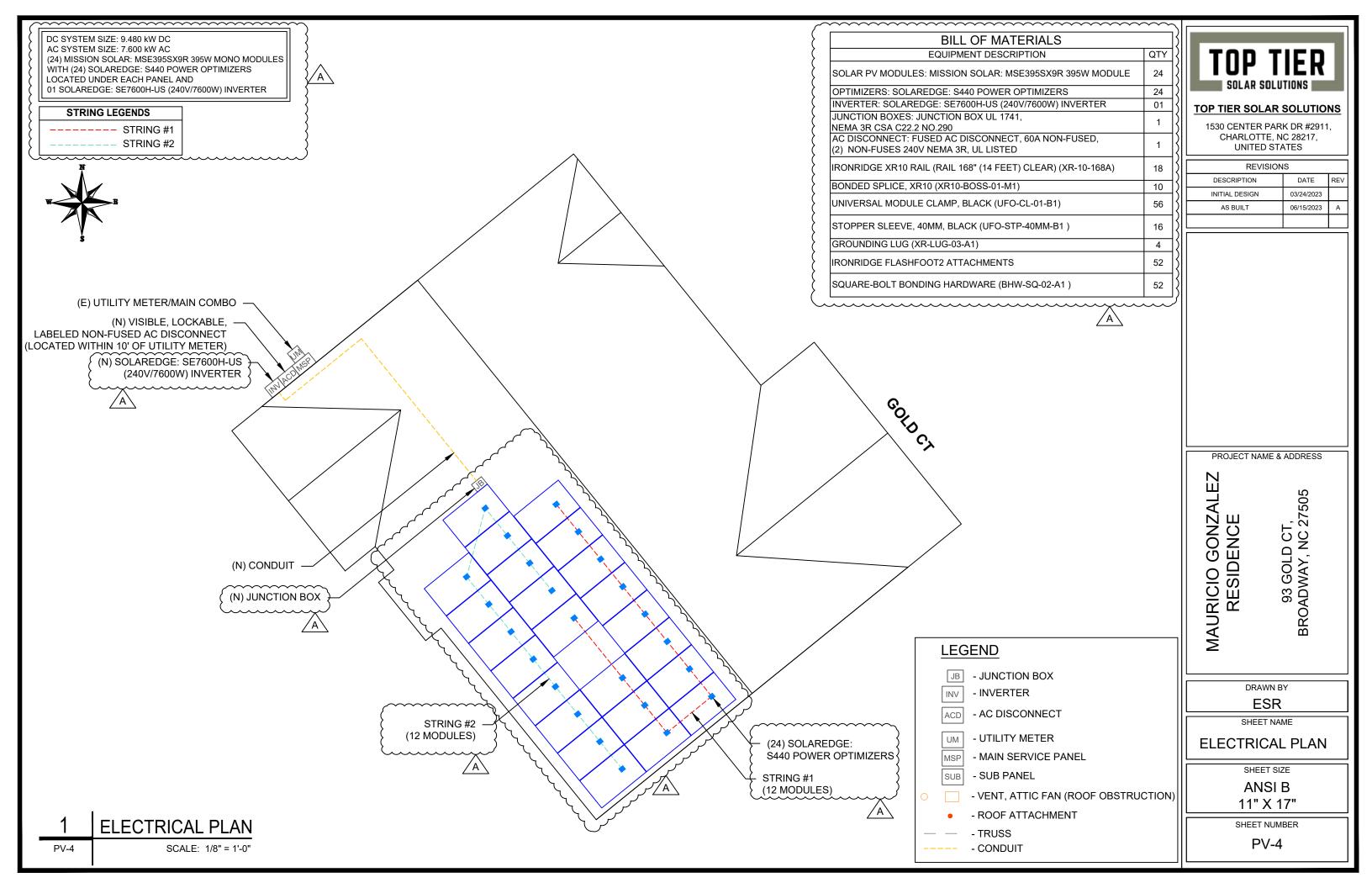
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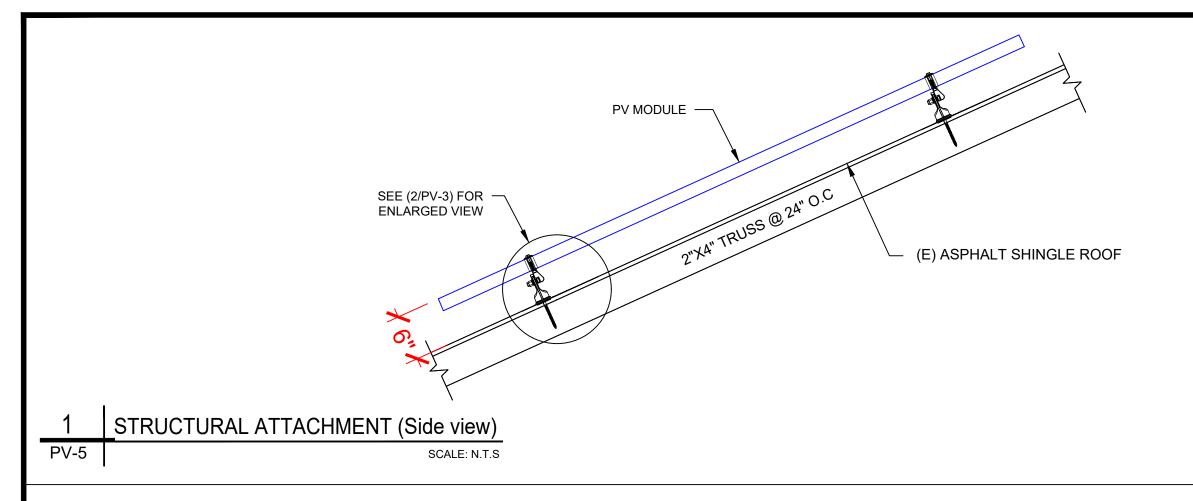
11" X 17"

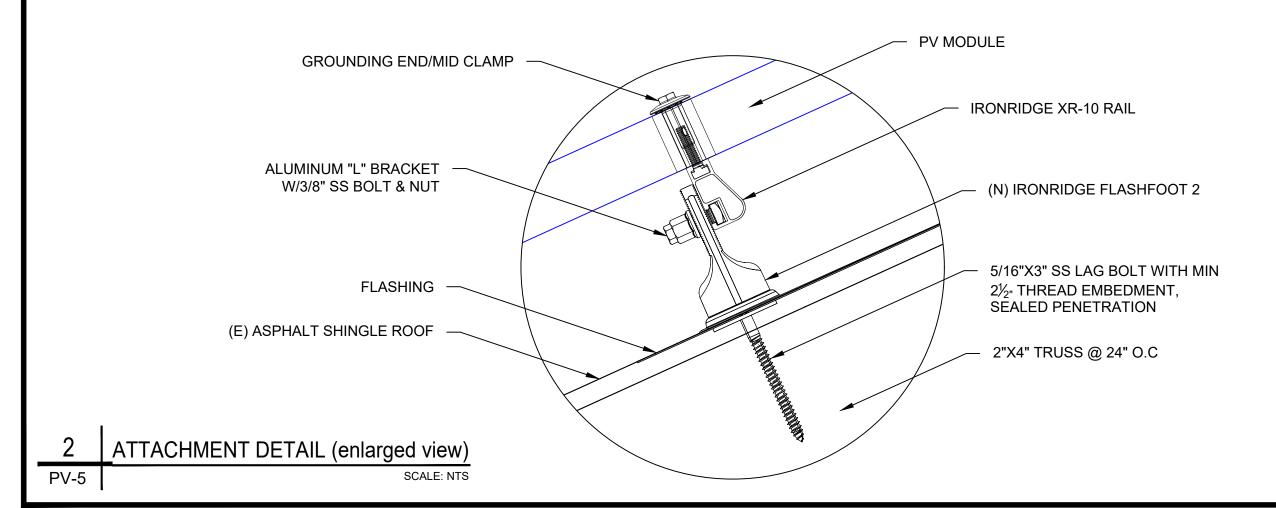
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Wyssling Consulting, PLLC
76 N Meadowbrook Drive Alpine UT 84004
North Carolina COA # P-2308
Signed 6/15/2023

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PROJECT NAME & ADDRESS

MAURICIO GONZALEZ RESIDENCE 93 GOLD CT, BROADWAY, NC 27505

DRAWN BY

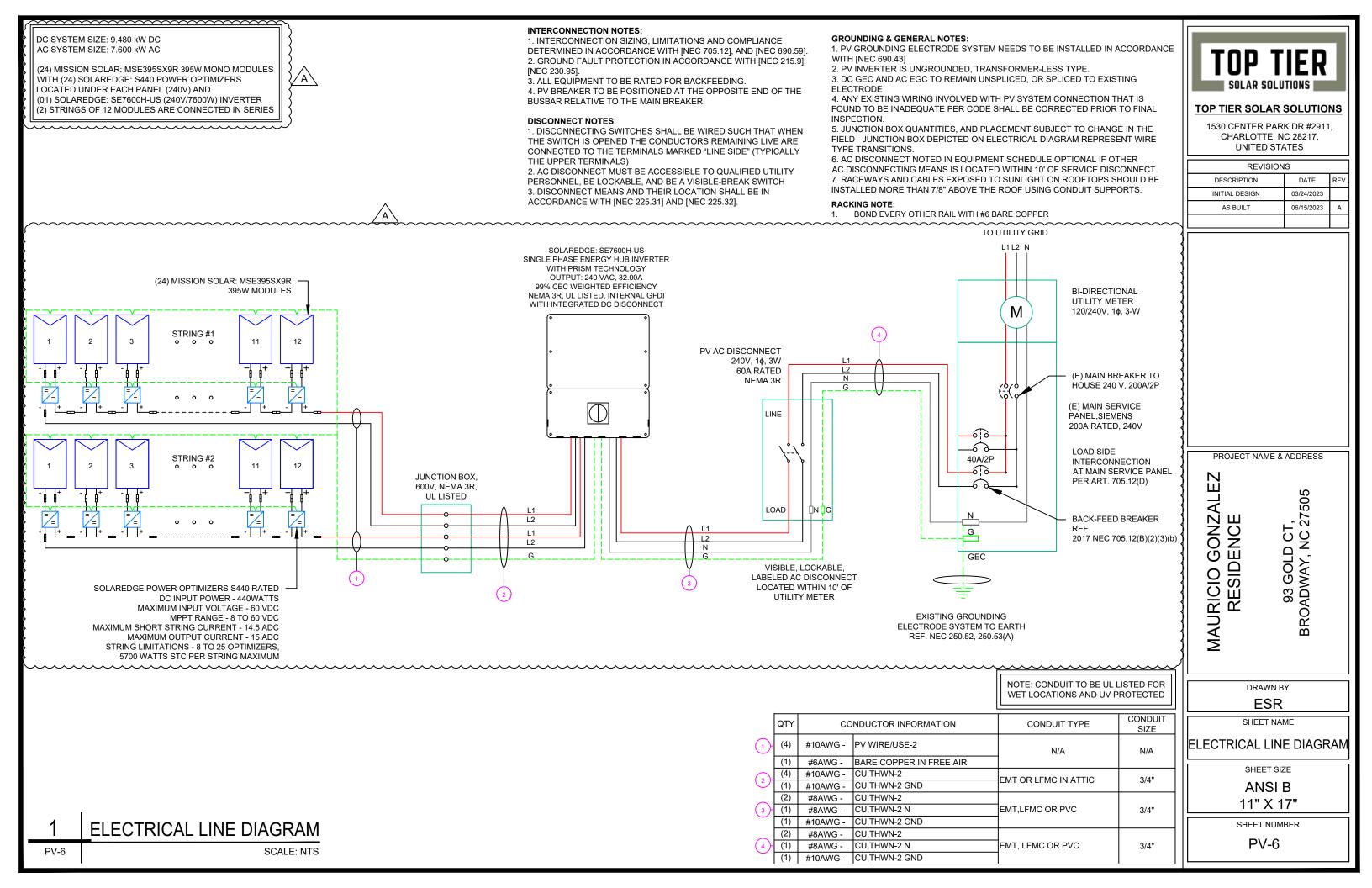
SHEET NAME

STRUCTURAL DETAIL

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER



SOLAR M	ODULE 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)

INVERTER SPECIFICATIONS								
I MANIJEACILIRER/MODEL#	SOLAREDGE: SE7600H-US (240V/7600W) INVERTER							
NOMINAL AC POWER	7.600 kW							
NOMINAL OUTPUT VOLTAGE	240 VAC							
NOMINAL OUTPUT CURRENT	32.00A							

NUMBER OF CURRENT

7-9

10-20

CARRYING CONDUCTORS IN EMT

PERCENT OF

VALUES

.80

.70

.50

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



TOP TIER SOLAR SOLUTIONS

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

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REVISION	IS .	
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		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	TEMP (°C)	TOTAL CC CONDUCTORS IN RACEWAY	90°C ΔΜΡΔΟΙΤΥ (Δ)	FOR AMBIENT	DERATION FACTOR FOR CONDUCTORS PER RACEWAY NEC 310.15(B)(3)(a)	AMPACITY	l	FEEDER LENGTH (FEET)	CONDUCTOR RESISTANCE (OHM/KFT)		CONDUIT SIZE	CONDUIT FILL (%)
INVERTER	AC DISCONNECT	240	32	40	40	CU #8 AWG	CU #10 AWG	CU #8 AWG	50	PASS	38	2	55	0.91	1	50.05	PASS	5	0.778	0.104	3/4" EMT	24.5591
AC DISCONNECT	POI	240	32	40	40	CU #8 AWG	CU #10 AWG	CU #8 AWG	50	PASS	38	2	55	0.91	1	50.05	PASS	5	0.778	0.104	3/4" EMT	24.5591
																						—) [,]

CUMULATIVE VOLTAGE 0.207

}										DC	FEEDER CAL	CULATIONS										}
CIRCUI	IT ORIGIN	CIRCUIT DESTINATION	VOLTAGE (V)	FULL LOAD AMPS "FLA" (A)	FLA*1.25 (A)	OCPD SIZE (A)	GROUND SIZE	CONDUCTOR SIZE	75°C AMPACITY (A)	AMPACITY CHECK #1	AMBIENT TEMP. (°C)		90°C AMPACITY (A)	FOR AMBIENT	DERATION FACTOR FOR CONDUCTORS PER RACEWAY NEC 310.15(B)(3)(a)	90°C AMPACITY	AMPACITY CHECK #2		CONDUCTOR RESISTANCE (OHM/KFT)		CONDUIT	CONDUIT FILL (%)
STF	RING 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 /
STF	RING 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
JUNCT	TION 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	45	1.24	0.441	3/4" EMT	19.79362

String 1 Voltage Drop 0.489
String 2 Voltage Drop 0.489



PROJECT NAME & ADDRESS

MAURICIO GONZALEZ RESIDENCE

93 GOLD CT, BROADWAY, NC 27505

DRAWN BY
ESR

SHEET NAME

WIRING CALCULATIONS

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

PV-7

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.

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

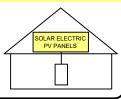
WARNING

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

LABEL- 5: 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

RATED AC OUTPUT CURRENT

240 V 32.00 A

LABEL- 9: LABEL LOCATION: AC DISCONNECT

CODE REF: NEC 690.54

LABEL- 10: LABEL LOCATION:

INVFRTFR

CODE REF: NEC 690.53

480 V MAXIMUM VOLTAGE MAXIMUM CIRCUIT CURRENT 20.00 A **MAXIMUM RATED OUTPUT CURRENT OF THE CHARGE** CONTROLLER OR DC-TO-DC CONVERTER (IF INSTALLED)

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TOP TIER SOLAR SOLUTIONS

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

REVISIONS						
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AS BUILT	06/15/2023	Α				
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PROJECT NAME & ADDRESS

MAURICIO GONZALEZ RESIDENCE

93 GOLD CT, BROADWAY, NC 27505

DRAWN BY **ESR**

SHEET NAME

LABELS

SHEET SIZE ANSI B

11" X 17"

SHEET NUMBER PV-8

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



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



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
- 40 mm frame



BAA Compliant for Government Projects

- Buy American Act
- American Recovery & Reinvestment Act



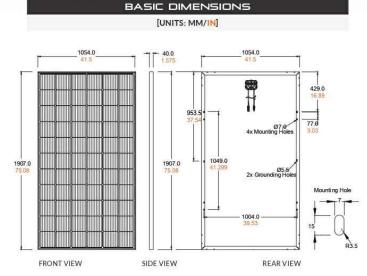


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UL 61730 / IEC 61215 / IEC 61730 / IEC 61701

Class Leading 390-400W

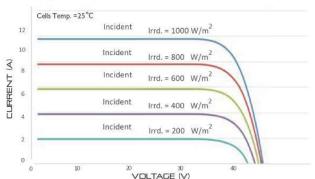
MSE PERC 66



CURRENT-VOLTAGE CURVE

MSE385SX9R: 385WP, 66 CELL SOLAR MODULE

Current-voltage characteristics with dependence on irradiance and module temperature



CERTIFICATIO	NS AND TESTS
IEC	61215, 61730, 61701
UL	61730





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	XXX	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

ICIENTS
43.75°C (±3.7%)
-0.367%/°C
-0.259%/°C
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 is not limited to, the module, the type of mounting used, pitch and roof composition.

ME	MECHANICAL 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					

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	Γ [26 PAN	ELS]	
Weight	Height		Width	Length
1,300 lbs. (572 kg)	47.56 in (120.80 cm		46 in 16.84 cm)	77 in (195.58 cm)

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TOP TIER SOLAR SOLUTIONS

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

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PROJECT NAME & ADDRESS

93 GOLD CT, BROADWAY, NC 27505 MAURICIO GONZAI RESIDENCE

> DRAWN BY **ESR**

SHEET NAME **EQUIPMENT SPECIFICATION**

> SHEET SIZE ANSI B

11" X 17"

SHEET NUMBER

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



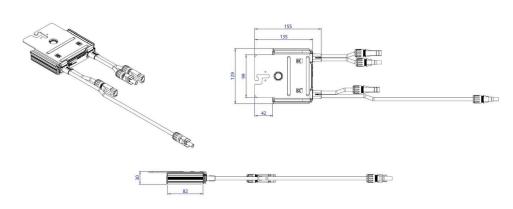
/ Power Optimizer For Residential Installations S440, S500

	S440	S500	UNIT		
		<u> </u>	*		
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		II			
OUTPUT DURING OPERATION					
Maximum Output Current	, and the second	15	Adc		
Maximum Output Voltage	60				
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 II safety), UL1741				
Material	UL94 V-0,	JV 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	55 x 30	mm		
Weight (including cables)	655	/ 1.5	gr / lb		
Input Connector	M	[42]			
Input Wire Length).1	m		
Output Connector	MC4				
Output Wire Length	(+) 2.3, (-) 0.10		m		
Operating Temperature Range ⁽³⁾	-40 t	o +85	°C		
Protection Rating	IP68 / I	NEMA6P			
Relative Humidity	0 -	100	%		

(2) For other connector types please contact SolarEdge

PV System Design Usi Inverter	ng 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 Len	aths or Orientations		Yes		

(4) If the inverters 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: 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



* Functionality subject to inverter model and firmware version

solaredge



CE RoHS

TOP TIER SOLAR SOLUTIONS

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

REVISIONS					
DESCRIPTION	DATE	REV			
INITIAL DESIGN	03/24/2023				
AS BUILT	06/15/2023	Α			
-					

PROJECT NAME & ADDRESS

MAURICIO GONZA RESIDENCE

DRAWN BY **ESR**

SHEET NAME **EQUIPMENT SPECIFICATION**

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

PV-10

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)



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)

3000 3000 12.5	3800 @ 240V 3300 @ 208V 3800 @ 240V 3300 @ 208V 16 16	6000 @ 240V 5000 @ 208V 6000 @ 240V 5000 @ 240V 59.3 - 60 25 24	7600 7600 1-60.5 ⁽²⁾ 32	10000	11400 @ 240V 10000 @ 208V 11400 @ 240V 10000 @ 208V	w						
3000	3300 @ 208V 3800 @ 240V 3300 @ 208V	5000 @ 208V 6000 @ 240V 5000 @ 208V 59.3 - 60	7600 1- 60.5 ¹²		10000 @ 208V 11400 @ 240V	-						
12.5	3300 @ 208V 16	5000 @ 208V 59.3 - 60 25	I - 60.5 ⁽²⁾	10000	0.0000000000000000000000000000000000000	W						
Military .	11077	25				100.0						
Military .	11077	5,777.5	32		59.3 - 60 - 60.5 ¹²							
-	16	24	0.000	42	47.5	Α						
		1250.572	=	=	48.5	Α						
		1				Α						
		<	3			%						
		1, adjustable	-0.85 to 0.85									
		Ye	es									
		Ye	25									
		<2	1.5			W						
3000	3800 7600*	6000	7600 10300*	10000	10300	W						
	111	211 -	264	<i>y</i> .	1	Vac						
105 - 132												
		55 - 6	0 - 65			Hz						
12.5	16 32*	25	32 43*	42	43	А						
1												
		<	5			A %						
I.º												
		96	00			W						
		211 -	264			Vac						
		59.3 - 6	0 - 60.5			Hz						
		4	0			Aac						
			×									
		Ye	es									
		48	30			Vdc						
		38	¥O			Vdc						
		Ye	es									
		600kΩ S	ensitivity									
6000	7600 15200*	12000	15200 22800*	22000	22800	W						
2	6600	10000	-	=	20000	W						
8.5	10.5 20*	16.5	20 31*	27	31	Ado						
	9	13.5	-	8	27	Ado						
		4	5			Add						
99			99.2			%						
	4,	99			99 @ 240V 98.5 @ 208V	%						
	6000 - 8.5	3000 7600* 12.5 16 32* 6000 7600 15200* - 6600 8.5 20* - 9	Ye	3000 7600* 6000 10300*	Yes <2.5 3000 3800 6000 7600 10300* 10000 211 - 264 105 - 132 155 - 60 - 65 12.5 16 32* 25 32 43* 42 1 42 Yes 480 380 Yes 600KΩ Sensitivity 6000 15200* 22800* 22000 - 6600 10000 6600 - 6600 10000 45 99 13.5 45 99 99	Yes <2.5 3000 3800 6000 7600 10000 10000 10300 211-264 105-132 55-60-65 12.5 16 25 32 43* 42 43 1 <						

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PROJECT NAME & ADDRESS

MAURICIO GONZAI RESIDENCE

93 GOLD CT, BROADWAY, NC 27505

DRAWN BY **ESR**

SHEET NAME **EQUIPMENT SPECIFICATION**

SHEET SIZE

A

ANSI B 11" X 17"

SHEET NUMBER

PV-11

solaredge.com

⁽¹⁾ These specifications apply to inverters with part numbers SboootH-USSMoooco or SExxXH-USSNoocco 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	UNITS		
INPUT - DC (BATTERY)	av.	-			•				
Supported Battery Types		SolarEdge Energy Bank, LG RESU Prime ⁽⁶⁾							
Number of Batteries per Inverter		Up to 3 Sc	larEdge Energy Ba	nk, up to 2 LG RESL	J Prime				
Continuous Power [®]	6000	7600		100	000		W		
Peak Power ^m	6000	7600		100	000		W		
Max Input Current	16	20		26	5.5		Adc		
2-pole Disconnection		.51	Y	'es					
SMART ENERGY CAPABILITIES									
Consumption Metering			Built	- in ^{®)}					
Backup & Battery Storage	With Ba	ackup Interface (pur	chased separately) for service up to 20	00A; Up to 3 inverte	rs			
EV Charging			Direct connection (to Smart EV charger	r ^e				
ADDITIONAL FEATURES						100	Ç		
Supported Communication Interfaces	T.	RS485, Ethernet, Cellular ⁶⁾ , Wi-Fi (optional), SolarEdge Energy Net (optional)							
Revenue Grade Metering, ANSI C12:20			Built	:-in ^m					
Integrated AC, DC and Communication Connection Unit		Yes							
Inverter Commissioning	With the	With the SetApp mobile application using built-in Wi-Fi Access Point for local connection							
DC Voltage Rapid Shutdown (PV and Battery)		Yes, accordin	gto NEC 2014, NEC	2017 and NEC 202	0 690.12				
STANDARD COMPLIANCE									
Safety		UL 1741, UL 1741 SA	A, UL1741 PCS, UL16	599B, UL1998, UL95	40, CSA 22.2				
Grid Connection Standards			IEEE1547, Rul	le 21, Rule 14H					
Emissions			FCC part	:15 class B					
INSTALLATION SPECIFICATIONS									
AC Output and EV AC Output Conduit Size / AWG Range			1" maximum	n / 14-4 AWG					
DC Input (PV and Battery) Conduit Size / AWG Range			1" maximum	1/14-6 AWG					
Dimensions with Connection Unit (H x W x D)	00002-10			17.7 x 14.6 x 6.8 / 450 x 370 x 174			in/mr		
DIMETRIOTS WITH CONNECTION OF III. (M x W x D)	17.7 x 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	111/1111		
Weight with Connection Unit		26 / 11.8		26 / 11.8 41.7/18.9*	41.7	18.9	lb/kg		
Noise	< 25	< 25					dBA		
Cooling	Natural Convection								
Operating Temperature Range		-40 to +140 / -40 to +60 ^{roi}					°F/°C		
Protection Rating			NEN	VIA 4					

⁽⁶⁾ The part numbers SExxxxH-USxMxxxxx only support the SolarEdge Energy Bank. The part numbers SExxxxH-USxNxxxxx support both SolarEdge Energy Bank and LG RESU Prime batteries



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MAURICIO GONZALEZ RESIDENCE

DRAWN BY **ESR**

SHEET NAME **EQUIPMENT SPECIFICATION**

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

⁽a) The part number's SEXXXXII-DENORMORE or in support time solarities are part numbers as supporting inverter firmware.

(7) Discharge power is limited up to the inverter rated AC power for ori-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.



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

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.

Sloped roofs generate both vertical and lateral

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.



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 emaining light and economical.

- 6' spanning capability
- Moderate load capability
- Clear anodized finish

Rail Selection

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

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 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.



Universal Fastening Object (UFO)

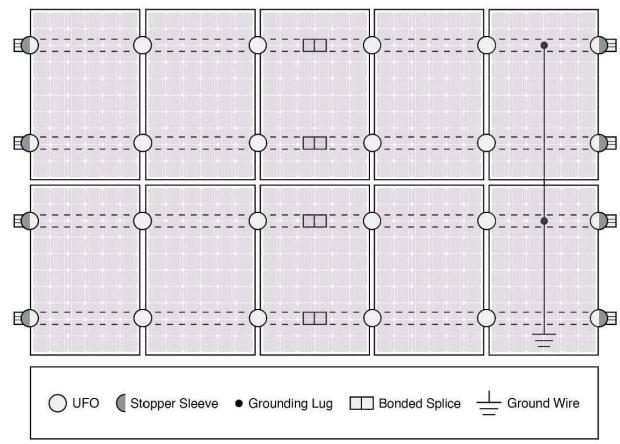
The UFO securely bonds solar modules to XR Rails. It comes assembled and lubricated, and can fit a wide range of module heights.



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	Enphase - M250-72, M250-60, M215-60, C250-72 Darfon - MIG240, MIG300, G320, G640 SolarEdge - P300, P320, P400, P405, P600, P700, P730			
Fire Rating	Class A	Class A	N/A	
Modules		ated with over 400 Illation manuals for		



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SHEET SIZE

ANSI B 11" X 17"

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PV-14

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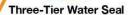
FlashFoot2

The Strongest Attachment in Solar

IronRidge FlashFoot2 raises the bar in solar roof protection. The unique water seal design is both elevated and encapsulated, delivering redundant layers of protection against water intrusion. In addition, the twist-on Cap perfectly aligns the rail attachment with the lag bolt to maximize mechanical strength.



FlashFoot2's unique Cap design encapsulates the lag bolt and locks into place with a simple twist. The Cap helps FlashFoot2 deliver superior structural strength, by aligning the rail and lag bolt in a concentric load path.



FlashFoot2's seal architecture utilizes three layers of protection. An elevated platform diverts water away, while a stack of rugged components raises the seal an entire inch. The seal is then fully-encapuslated by the Cap. FlashFoot2 is the first solar attachment to pass the TAS-100 Wind-Driven Rain Test.

Water-Shedding Design

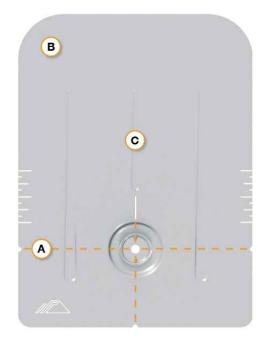
away from the water seal

An elevated platform diverts water



A custom-design lag bolt allows you to install FlashFoot2 with the same 7/16" socket size used on other Flush Mount System components.

Installation Features



(A) Alignment Markers

Quickly align the flashing with chalk lines to find pilot holes.

B Rounded Corners

Makes it easier to handle and insert under the roof shingles.

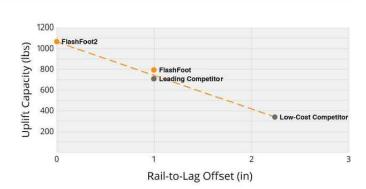
(C) Reinforcement Ribs

Help to stiffen the flashing and prevent any bending or crinkling during installation.

Benefits of Concentric Loading

Traditional solar attachments have a horizontal offset between the rail and lag bolt, which introduces leverage on the lag bolt and decreases uplift capacity.

FlashFoot2 is the only product to align the rail and lag bolt. This concentric loading design results in a stronger attachment for the system.



Testing & Certification

Structural Certification

Designed and Certified for Compliance with the International Building Code & ASCE/SEI-7.

Water Seal Ratings

Water Sealing Tested to UL 441 Section 27 "Rain Test" and TAS 100-95 "Wind Driven Rain Test" by Intertek. Ratings applicable for composition shingle roofs having slopes between 2:12 and 12:12.

UL 2703

Conforms to UL 2703 Mechanical and Bonding Requirements. See Flush Mount Install Manual for full ratings.

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SHEET NAME
EQUIPMENT
SPECIFICATION

SHEET SIZE

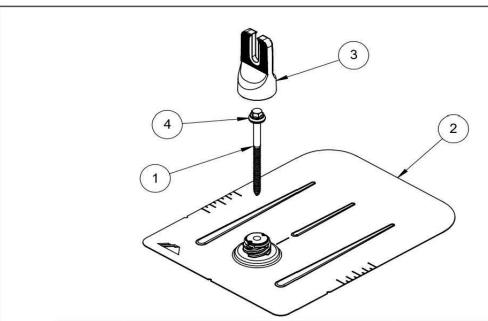
ANSI B 11" X 17"

SHEET NUMBER

v2.0



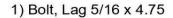
FlashFoot2®

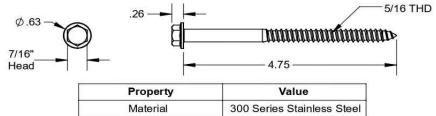


ITEM NO.	DESCRIPTION	Qty in Kit
1	BOLT LAG 5/16 X 4.75"	1
2	ASSY, FLASHING	1
3	ASSY, CAP	1
4	WASHER, EPDM BACKED	1

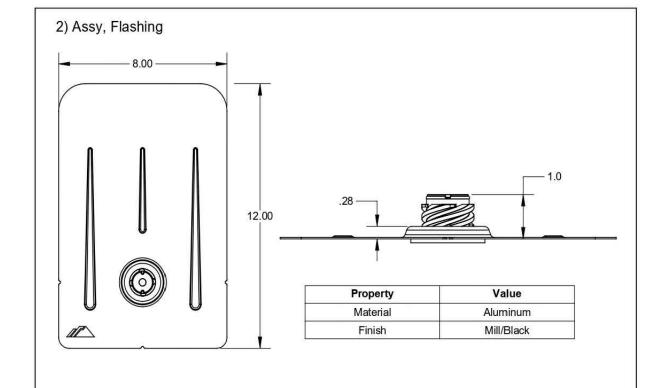
FLASHFOOT 2

Part Number	Description
FF2-02-M2	FlashFoot2® (Mill)
FF2-02-B2	FlashFoot2® (Black)

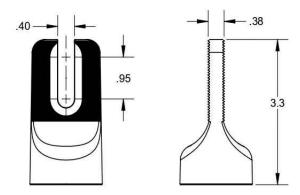




Property	Value
Material	300 Series Stainless Steel
Finish	Clear

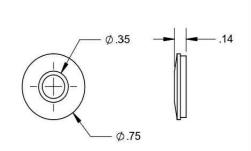


3) Assy, Cap



Property	Value
Material	Aluminum
Finish	Mill/Black

4) Washer, EPDM Backed



Property	Value	
Material	300 Series Stainless Steel	
Finish	Clear	

v2.0

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> SHEET SIZE ANSI B

11" X 17"

SHEET NUMBER



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

WEIGHT: 1.45 LBS SHEET 1 OF 3

REV



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

SIZE	DWG. NO.		REV
В	JB-1.2		
SCALE: 1:2	WEIGHT: 1.45 LBS	SHEE	T 2 0F 3

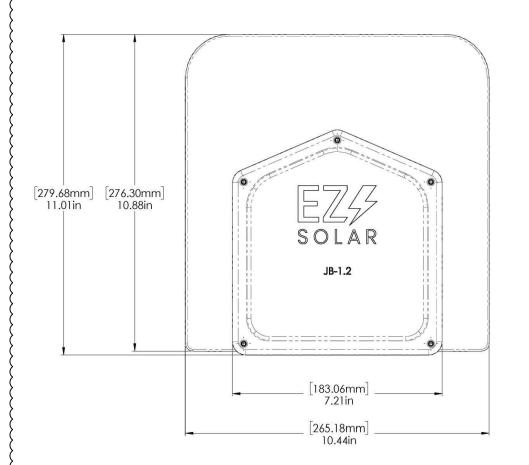
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	JB-1.2 BODY	POLYCARBONATE WITH UV INHIBITORS	1
2	JB-1.2 LID	POLYCARBONATE WITH UV INHIBITORS	1
3	#10 X 1-1/4" PHILLIPS PAN HEAD SCREW		6
4	#8 X 3/4" PHILLIPS PAN HEAD SCREW		6

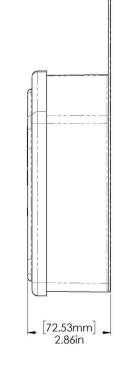
TORQUE SPECIFICATION:	15-20 LBS
CERTIFICATION:	UL 1741, NEMA 3R CSA C22.2 NO. 290
WEIGHT:	1.45 LBS

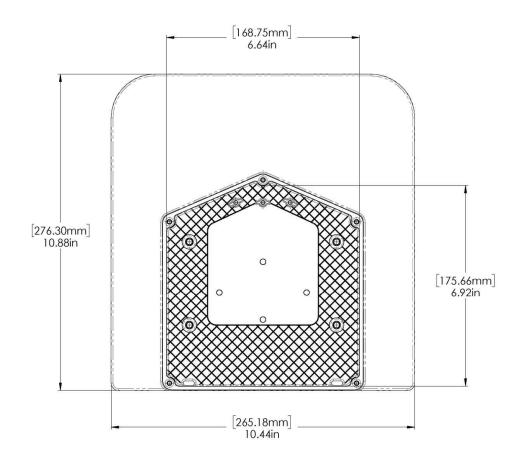
SIZE

B

DWG. NO.









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