PHOTOVOLTAIC ROOF MOUNT SYSTEM

19 MODULES-ROOF MOUNTED - 7.505 kW DC, 6.000 kW AC 36 STONE WOOD LN, SANFORD, NC 27332

PROJECT DATA **GENERAL NOTES PROJECT** 36 STONE WOOD LN. ALL COMPONENTS ARE UL LISTED AND CEC CERTIFIED, WHERE WARRANTED. **ADDRESS** SANFORD, NC 27332 THE SOLAR PV SYSTEM WILL BE INSTALLED IN ACCORDANCE WITH ARTICLE 690 OF THE NEC 2017. MARIA T FLORES ZARATE OWNER: THE UTILITY INTERCONNECTION APPLICATION MUST BE APPROVED AND PV SYSTEM INSPECTED PRIOR TO PARALLEL OPERATION. DESIGNER: ESR ALL CONDUCTORS OF A CIRCUIT, INCLUDING THE EGC, MUST BE INSTALLED IN THE SAME RACEWAY, OR CABLE, OR SCOPE: 7.505 KW DC ROOF MOUNT WHERE METALLIC CONDUIT CONTAINING DC CONDUCTORS IS USED INSIDE THE BUILDING, IT SHALL BE IDENTIFIED AS SOLAR PV SYSTEM WITH "CAUTION: SOLAR CIRCUIT" EVERY 10FT. 19 MISSION SOLAR: MSE395SX9R 395W 6. HEIGHT OF THE AC DISCONNECT SHALL NOT EXCEED 6'-7" PER NEC CODE 240.24. PV MODULES WITH 19 SOLAREDGE: S440 POWER OPTIMIZERS AND A GROUNDING ELECTRODE SYSTEM IN ACCORDANCE WITH CEC 690.47 AND 250.50 THROUGH 60 AND 250-166 SHALL BE 01 SOLAREDGE: SE6000H-US (240V) INVERTER **AUTHORITIES HAVING JURISDICTION:** GROUNDING ELECTRODE TO PROVIDE FOR A COMPLETE SYSTEM. **BUILDING: HARNETT COUNTY** PHOTOVOLTAIC MODULES ARE TO BE CONSIDERED NON-COMBUSTIBLE. **ZONING: HARNETT COUNTY** UTILITY: CENTRAL EMC 9. PHOTOVOLTAIC INSTALLATION WILL NOT OBSTRUCT ANY PLUMBING. MECHANICAL, OR BUILDING ROOF VENTS. WIRING MUST BE PERMANENTLY AND COMPLETELY HELD OFF THE ROOF SURFACE. SHEET INDEX RESISTANT. ALL PLAQUES AND SINAGE WILL BE INSTALLED AS REQUIRED BY THE NEC AND AHJ. **COVER SHEET** 12. INVERTER(S) USED IN UNGROUNDED SYSTEM SHALL BE UL 1741 LISTED. PV-2 SITE PLAN PV-3 **ROOF PLAN & MODULES** PV-4 **ELECTRICAL PLAN** QUALIFIED PERSONS [NEC 690.4(C)] PV-5 STRUCTURAL DETAIL PV-6 **ELECTRICAL LINE DIAGRAM** PV-7 WIRING CALCULATIONS PV-8 LABELS 15. ALL EQUIPMENT SHALL BE PROPERLY GROUNDED AND BONDED IN ACCORDANCE WITH NEC ARTICLE 250. PV-9+ **EQUIPMENT SPECIFICATIONS** 16. SYSTEM GROUNDING SHALL BE IN ACCORDANCE WITH NEC 690.41. NEC 690.12

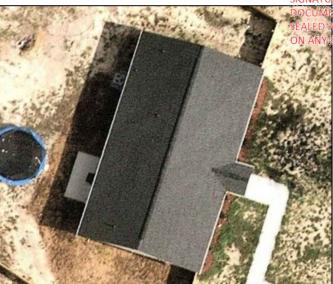
SIGNATURE

- OTHERWISE RUN WITH THE PV ARRAY CIRCUIT CONDUCTORS WHEN THEY LEAVE THE VICINITY OF THE PV ARRAY.
- 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
- 10. ALL WIRING MUST BE PROPERLY SUPPORTED BY DEVICES OR MECHANICAL MEANS DESIGNED AND LISTED FOR SUCH USE.
- 11. ALL SINAGE TO BE PLACED IN ACCORDANCE WITH THE LOCAL BUILDING CODE. IF EXPOSED TO SUNLIGHT, IT SHALL BE UV
- 13. THE INSTALLATION OF EQUIPMENT AND ALL ASSOCIATED WIRING AND INTERCONNECTION SHALL BE PERFORMED ONLY BY
- 14. ALL OUTDOOR EQUIPMENT SHALL BE NEMA 3R RATED (OR BETTER), INCLUDING ALL ROOF MOUNTED TRANSITION BOXES AND
- 17. PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION IN ACCORDANCE WITH
- 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
- 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										
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	INITIAL DESIGN	04/28 .02									
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W	yssling Consulting,	PLLC									
76	N Meadowbrook Drive Alpine I										
	North Carolina COA # P-23										
	Signed 4/28/2023	3									

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FROME PRAMUS ABOVERS

36 STONE WOOD LN, SANFORD, NC 27332 MARIA

> DRAWN BY **ESR**

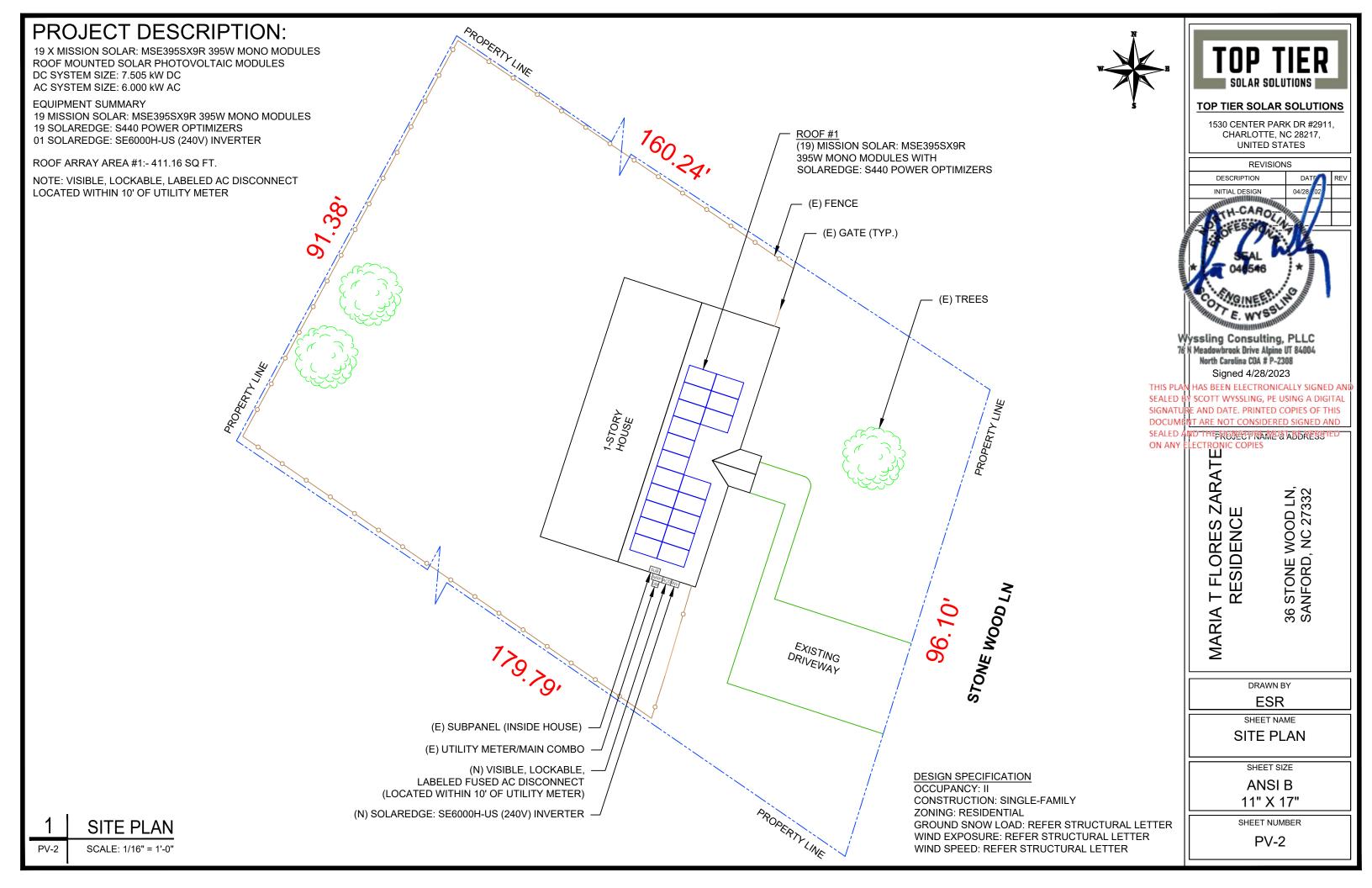
SHEET NAME

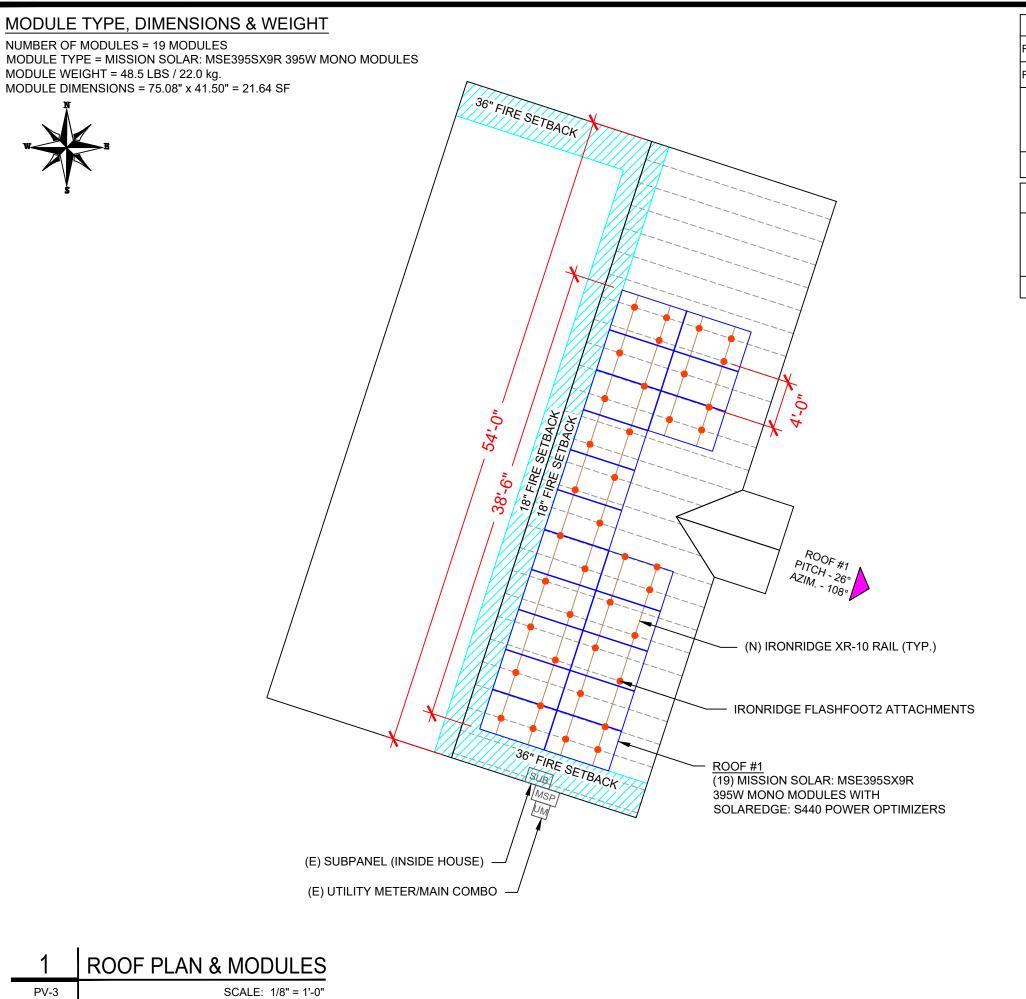
COVER SHEET

SHEET SIZE

ANSIB 11" X 17"

SHEET NUMBER





	ROOF DESCRIPTION												
ROOF TYPE	■		ASPHALT SHINGLE										
ROOF LAYE	ΞR	1 LAYER											
ROOF	# OF MODULES	ROOF PITCH	AZIMUTH	TRUSS SIZE	TRUSS SPACING								
#1	19	26°	108°	2"X4"	24"								

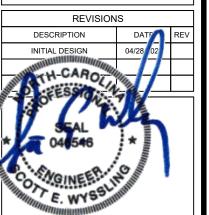
ARRAY AREA & ROOF AREA CALC'S

TOTAL PV ARRAY AREA (SQ. FT.)	TOTAL ROOF AREA (Sq. Ft.)	ROOF AREA COVERED BY ARRAY (%)
411.16	1781.66	23



TOP TIER SOLAR SOLUTIONS

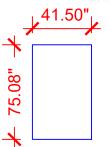
1530 CENTER PARK DR #2911, CHARLOTTE, NC 28217, UNITED STATES



Wyssling Consulting, PLLC 76 N Meadowbrook Drive Alpine UT 84004 North Carolina COA # P-2308 Signed 4/28/2023

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MISSION SOLAR: MSE395SX9R 395W MODULES

LEGEND

JB - JUNCTION BOX

SD - SOLADECK

INV - INVERTER

CB - COMBINER BOX

- AC DISCONNECT

- UTILITY METER

- MAIN SERVICE PANEL

- VENT, ATTIC FAN (ROOF OBSTRUCTION)

ROOF ATTACHMENT

— — - TRUSS

---- - CONDUIT

MARIA T FLORES ZARATI RESIDENCE

36 STONE WOOD LN, SANFORD, NC 27332

DRAWN BY

SHEET NAME

ROOF PLAN & MODULES

SHEET SIZE

ANSI B 11" X 17"

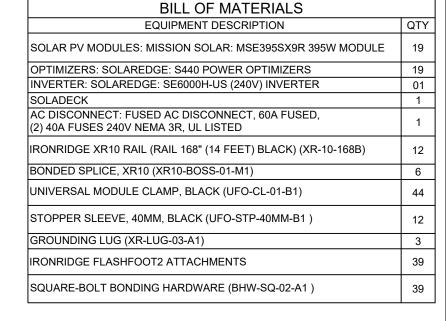
SHEET NUMBER

DC SYSTEM SIZE: 7.505 kW DC AC SYSTEM SIZE: 6.000 kW AC (19) MISSION SOLAR: MSE395SX9R 395W MONO MODULES WITH (19) SOLAREDGE: S440 POWER OPTIMIZERS LOCATED UNDER EACH PANEL AND 01 SOLAREDGE: SE6000H-US (240V) INVERTER

STRING LEGENDS

---- STRING #1 STRING #2





TOP TIER SOLAR SOLUTIONS 1530 CENTER PARK DR #2911, CHARLOTTE, NC 28217, UNITED STATES **REVISIONS** DESCRIPTION INITIAL DESIGN

DATE

04/28/2023

PROJECT NAME & ADDRESS T FLORES ZARAT RESIDENCE 36 STONE WOOD LN, SANFORD, NC 27332

> DRAWN BY **ESR**

> SHEET NAME

ELECTRICAL PLAN

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

PV-4



STRING #2 (9 MODULES)

STONE WOOD LN

STRING #1 (10 MODULES)

(N) SOLADECK (TYP.)

(N) CONDUIT

(19) SOLAREDGE:

S440 POWER OPTIMIZERS

JB - JUNCTION BOX

SD - SOLADECK

INV - INVERTER

- COMBINER BOX

- AC DISCONNECT

- UTILITY METER UM

- MAIN SERVICE PANEL

- VENT, ATTIC FAN (ROOF OBSTRUCTION) - ROOF ATTACHMENT

- TRUSS

- CONDUIT



PV-4

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

(E) SUBPANEL (INSIDE HOUSE)

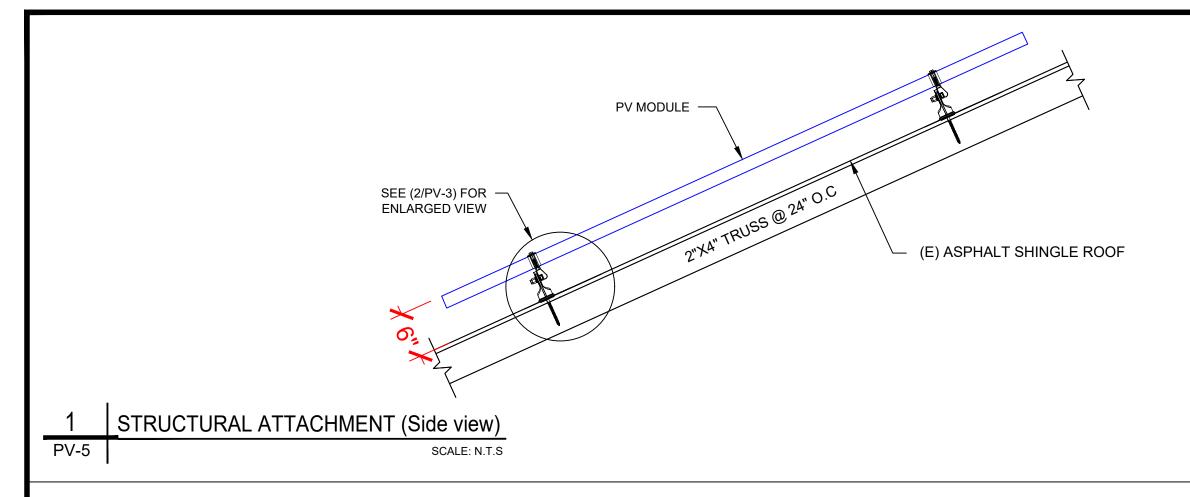
(E) UTILITY METER/MAIN COMBO

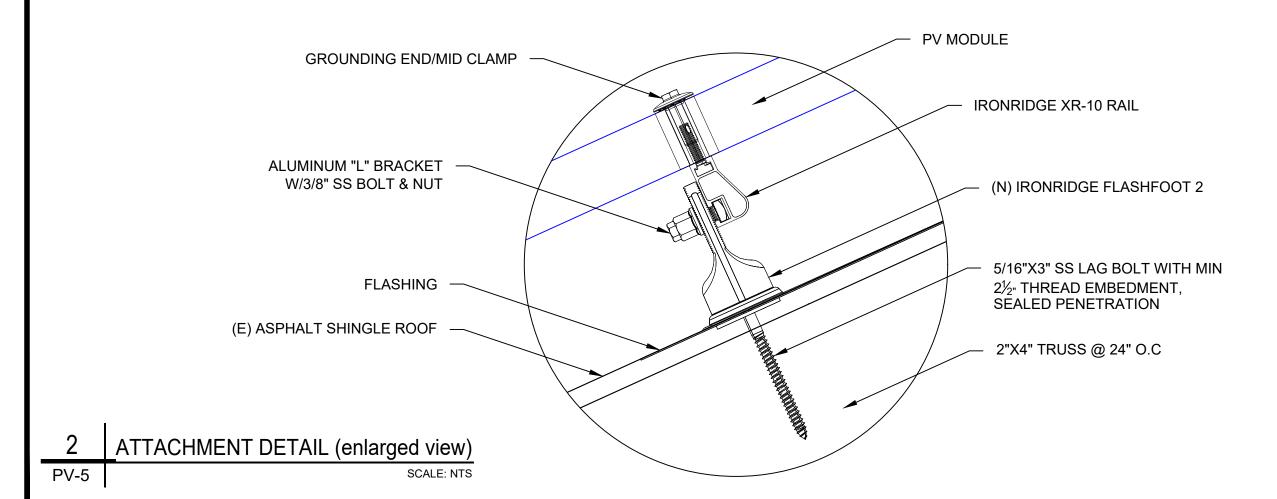
LABELED FUSED AC DISCONNECT

(LOCATED WITHIN 10' OF UTILITY METER)

(N) SOLAREDGE: SE6000H-US (240V) INVERTER

(N) VISIBLE, LOCKABLE, -







TOP TIER SOLAR SOLUTIONS

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

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Wyssling Consulting, PLLC
76 N Meadowbrook Drive Alpine UT 84004
North Carolina COA # P-2308
Signed 4/28/2023

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MARIA T FLORES ZARATI RESIDENCE 36 STONE WOOD LN, SANFORD, NC 27332

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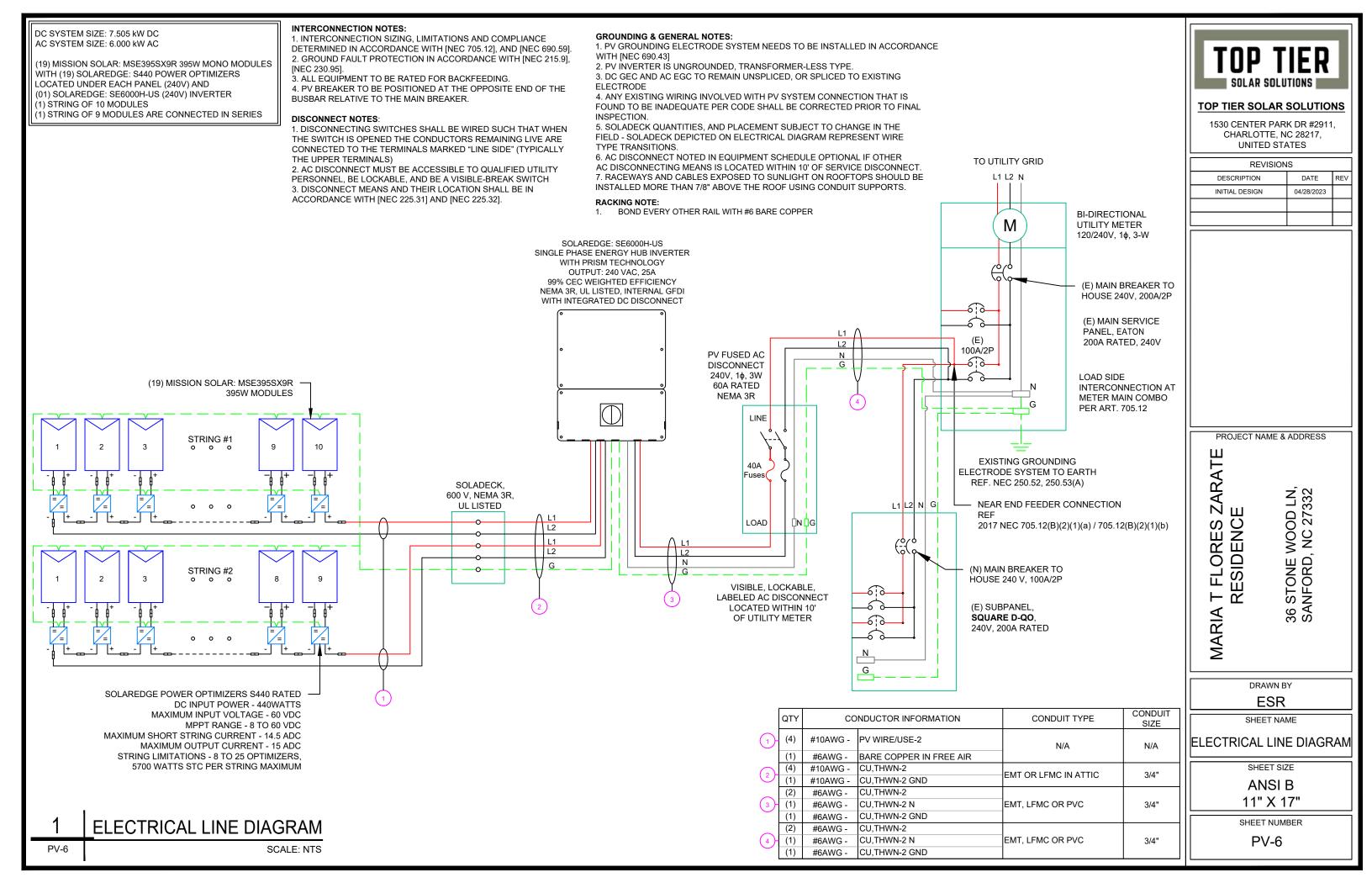
SHEET NAME

STRUCTURAL DETAIL

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER



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)									

INVERTER SPECIFICATIONS										
MANUFACTURER / MODEL #	SOLAREDGE: SE6000H-US (240V) INVERTER									
NOMINAL AC POWER	6.000 kW									
NOMINAL OUTPUT VOLTAGE	240 VAC									
NOMINAL OUTPUT CURRENT	25A									

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

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

	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 AMPACITY (A)	DERATION FACTOR FOR AMBIENT TEMPERATURE NEC 310.15(B)(2)(a)	FOR CONDUCTORS	AMPACITY	AMPACITY CHECK #2	FEEDER LENGTH (FEET)	CONDUCTOR RESISTANCE (OHM/KFT)	DROP AT	CONDUIT	CONDUIT FILL (%)
INVERTER 1	AC DISCONNECT	240	25	31.25	40	CU #6 AWG	CU #6 AWG	CU #6 AWG	65	PASS	38	2	75	0.91	1	68.25	PASS	5	0.491	0.051	3/4" EMT	38.0488
AC DISCONNECT	POI	240	25	31.25	40	CU #6 AWG	CU #6 AWG	CU #6 AWG	65	PASS	38	2	75	0.91	1	68.25	PASS	5	0.491	0.051	3/4" EMT	38.0488

CUMULATIVE VOLTAGE

	DC FEEDER CALCULATIONS																				
CIRCUIT 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)	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		CONDUCTOR RESISTANCE (OHM/KFT)		CONDUIT	CONDUIT FILL (%)
STRING 1	SOLADECK	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	SOLADECK	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
SOLADECK	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

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 SOLADECK, RACEWAYS, AND CONDUITS ARE NOT SPECIFIED, THE CONTRACTOR SHALL SIZE THEM ACCORDINGLY.
- 7. ALL WIRE TERMINATIONS SHALL BE APPROPRIATELY LABELED AND READILY VISIBLE.
- 8. MODULE GROUNDING CLIPS TO BE INSTALLED BETWEEN MODULE FRAME AND MODULE SUPPORT RAIL, PER THE GROUNDING CLIP MANUFACTURER'S INSTRUCTION.
- 9. MODULE SUPPORT RAIL TO BE BONDED TO CONTINUOUS COPPER G.E.C. VIA WEEB LUG OR ILSCO GBL-4DBT LAY-IN LUG.
- 10. TEMPERATURE RATINGS OF ALL CONDUCTORS, TERMINATIONS, BREAKERS, OR OTHER DEVICES ASSOCIATED WITH THE SOLAR PV SYSTEM SHALL BE RATED FOR AT LEAST 75 DEGREE C.



TOP TIER SOLAR SOLUTIONS

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

REVISION	IS	
DESCRIPTION	DATE	REV
INITIAL DESIGN	04/28/2023	

PROJECT NAME & ADDRESS

MARIA T FLORES ZARATI RESIDENCE 36 STONE WOOD LN, SANFORD, NC 27332

DRAWN BY

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
INVERTER
MAIN SERVICE PANEL
SUBPANEL
MAIN SERVICE DISCONNECT
CODE REF: NEC 690.13(B)

⚠ WARNING

DUAL POWER SUPPLY

SOURCE: UTILITY GRID AND PV SOLAR ELECTRIC SYSTEM

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

SOLAR PV BREAKER:

BREAKER IS BACKFED DO NOT RELOCATE

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

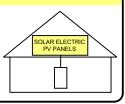


POWER SOURCE OUTPUT CONNECTION. DO NOT RELOCATE THIS OVERCURRENT DEVICE

LABEL- 5: LABEL LOCATION: MAIN SERVICE PANEL (ONLY IF SOLAR IS BACK-FED) SUBPANEL (ONLY IF SOLAR IS BACK-FED) CODE REF: NEC 705.12(B)(3)(2)

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

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 CODE REF: NEC 690.56(C)(2)

DC DISCONNECT

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

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- 9: LABEL LOCATION: INVERTER CODE REF: NEC 690.53

AC DISCONNECT PHOTOVOLTAIC SYSTEM POWER SOURCE NOMINAL OPERATING AC VOLATGE 240 V RATED AC OUTPUT CURRENT 25.00 A

LABEL- 10: · <u>LABEL LOCATION:</u> AC DISCONNECT CODE REF: NEC 690.54

TOP TIER

TOP TIER SOLAR SOLUTIONS

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

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PROJECT NAME & ADDRESS

T FLORES ZARATI RESIDENCE

MARIA

36 STONE WOOD LN, SANFORD, NC 27332

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



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



UL 61730 / IEC 61215 / IEC 61730 / IEC 61701

or concerns about 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 Busbar
- 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

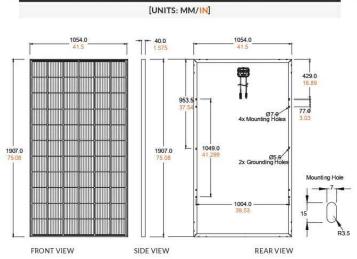




www.missionsolar.com | info@missionsolar.com

Class Leading 390-400W

MSE PERC 66



BASIC DIMENSIONS

Normal Operating Cell Temperature (NOCT) Temperature Coefficient of Pmax

Current-voltage characteristics with dependence on irradiance and module temperature Cells Temp. =25°C Incident Irrd. = 1000 W/m² Irrd. = 800 W/m² Irrd. = 400 W/m² Irrd. = 200 W/m²

CURRENT-VOLTAGE CURVE MSE385SX9R: 385WP, 66 CELL SOLAR MODULE

CERTIFICATIONS AND TESTS			
IEC	61215, 61730, 61701		
UL	61730		

VOLTAGE (V)







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}	W_p	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

Temperature Coefficient of Voc		-0.259%/°C
Temperature Coefficient of Isc		0.033%/℃
OPERATIN	CONDIT	IONS
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	Up to 5,400 P	a front and 3,600 Pa

Hail Safety Impact Velocity *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.

25mm at 23 m/s

back load, Tested to UL 61730

(UL Standard)

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"	T [26 PAI	NELS]	
Weight 1,300 lbs. (572 kg)	Height 47.56 in (120.80 cm)) (1	Width 46 in 116.84 cm)	Length 77 in (195.58 cm)

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REVISIONS			
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INITIAL DESIGN	04/28/2023		

PROJECT NAME & ADDRESS

ZARATI E

MARIA

36 STONE WOOD LN, SANFORD, NC 27332 FLORES :

> 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

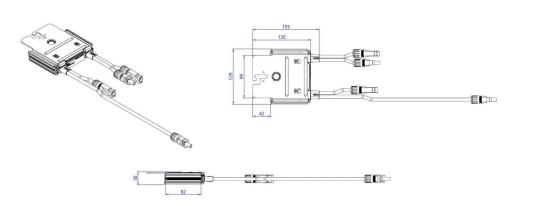
	S440	S500	UNIT
Rated Input DC Power ⁽¹⁾	440	500	W
Absolute Maximum Input Voltage (Voc)	60		Vdc
MPPT Operating Range	8 - 60		Vdc
Maximum Short Circuit Current (Isc) of Connected PV Module	14.5	15	Adc
Maximum Efficiency	99.5		%
Weighted Efficiency	98.6		%
Overvoltage Category	II		
OUTPUT DURING OPERATION			
Maximum Output Current	15		Adc
Maximum Output Voltage	60		Vdc
OUTPUT DURING STANDBY (POWER OPTIMIZER DISC	ONNECTED FROM INVERTER OR IN	IVERTER OFF)	
Safety Output Voltage per Power Optimizer	1	,	Vdc
STANDARD COMPLIANCE			-
EMC	FCC Part 15 Class B, IEC61000-6-2, IE	C61000-6-3, CISPR11, EN-55011	
Safety	IEC62109-1 (class II safety), UL1741		
Material	UL94 V-0, UV Resistant		
RoHS	Yes		
Fire Safety	VDE-AR-E 2100-712:2013-05		
INSTALLATION SPECIFICATIONS			
Maximum Allowed System Voltage	1000		Vdc
Dimensions (W x L x H)	129 x 155 x	30	mm
Weight (including cables)	655 / 1.5	i	gr/lb
Input Connector	MC4 ⁽²⁾		
Input Wire Length	0.1		m
Output Connector	MC4		
Output Wire Length	(+) 2.3, (-)	0.10	m
Operating Temperature Range ⁽³⁾	-40 to +8	35	°C
Protection Rating	IP68 / NEM	A6P	
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 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 Usin Inverter	g 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 (Power	Optimizers)	25		50	
Maximum Nominal Power per S	tring ⁽⁴⁾	5700	11250(5)	12750(6)	W
Parallel Strings of Different Leng	ths 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 13,500V yer 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



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CE RoHS

TOP TIER SOLAR SOLUTIONS

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

REVISIONS			
DESCRIPTION	DATE	REV	
INITIAL DESIGN	04/28/2023		

PROJECT NAME & ADDRESS

T FLORES ZARAT RESIDENCE

MARIA

36 STONE WOOD LN, SANFORD, NC 27332

DRAWN BY **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 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 ⁽²⁾			Hz
Maximum Continuous Output Current @ 240V	12.5	16	25	32	42	47.5	Α
Maximum Continuous Output Current @ 208V	=	16	24	=	-	48.5	Α
GFDI Threshold			1				Α
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)			Y				
Typical Nighttime Power Consumption			<2	2.5			W
OUTPUT - AC BACKUP ⁽³⁾							
Rated AC Power in Backup Operation®	3000	3800	6000	7600	10000	10300	W
nace Ac Fower In backup operation	3000	7600*	0000	10300*	10000	10500	
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	
MaximumContinuous Output Current in Backup Operation	12.5	16 32*	- 25	32 43*	42	43	А
GFDI .				1	1		Α
THD				5			%
OUTPUT - SMART EV CHARGER AC							1.1
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	es			
MaxInput Voltage			48	30			Vdc
Nom DC Input Voltage			38	30			Vdc
Reverse-Polarity Protection			Ye	es			
Ground-Fault Isolation Detection			600kΩ S	ensitivity			
INPUT - DC (PV)			1113041176-0711-0	5-01 (10 (-10 (-10 (-10 (-10 (-10 (-10 (-			
Maximum DC Power @ 240V	6000	7600	12000	15200	22000	22800	w
CALLED COMMON SERVICE DE LA PROCESTA DE CONTRACTOR DE COMMON COMPANION DE COMMON DE COMPANION DE	2000000	15200*	-150550.0.004	22800*	N-60-10-10-10-10-10-10-10-10-10-10-10-10-10	11000000000000	Con
Maximum DC Power @ 208V		6600	10000	- 20	-	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	-	18	27	Adc
Max. Input Short Circuit Current			4	5			Adc
Maximum Inverter Efficiency	99			99.2			%
CEC Weighted Efficiency	99 99 240V 98.5 @ 208V						%
2-pole Disconnection	Yes						

- (1) These specifications apply to inverters with part numbers SExxxiH-USSMxxxxx or SExxxiH-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



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36 STONE WOOD LN, SANFORD, NC 27332

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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)			-14			<u>.</u>	
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 RESU	J Prime		
Continuous Power ^a	6000	7600		100	000		W
Peak Power [®]	6000	7600		100	000		W
Max Input Current	16	20		20	6.5		Adc
2-pole Disconnection		W.	Y	es			
SMART ENERGY CAPABILITIES							
Consumption Metering			Built	- iU _{BJ}			
Backup & Battery Storage	With Ba	ickup Interface (pur	chased separately)	for service up to 20	00A; Up to 3 inverte	ers	
EV Charging			Direct connection (to Smart EV charge	F		
ADDITIONAL FEATURES	*						
Supported Communication Interfaces		RS485, Ethernet	, Cellular®, Wi-Fi (o	ptional),SolarEdge I	Energy Net (optiona	al)	
Revenue Grade Metering, ANSI C12.20			Built	- in ^{en}			
Integrated AC, DC and Communication Connection Unit			Y	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	20 690.12		
STANDARD COMPLIANCE							
Safety		UL1741, UL1741 SA	4, UL1741 PCS, UL16	599B, UL1998, UL95	40, CSA 22.2		
Grid Connection Standards			IEEE1547, Rui	e 21, Rule 14H			
Emissions			FCC part	15 class B			
INSTALLATION SPECIFICATIONS							
AC Output and EV AC Output Conduit Size / AWG Range			1" maximum	1/14-4 AWG			
DC Input (PV and Battery) Conduit Size / AWG Range			1" maximum	1/14-6 AWG			
				17.7 x 14.6 x 6.8 / 450 x 370 x 174			
Dimensions with Connection Unit (H x W x D)	17.7 x 1	4.6 x 6.8 / 450 x 37	0 x 174	17.7 x 14.6 x 6.8 /	17.7 x 14.6 x 6.8 /	450 x 370 x 174	in/mm
	450 x 370 x 174*		10/20/2010/00/2010/00/20				
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 ^{ron}						°F/°C
Protection Rating	NEMA 4						

⁽⁶⁾ The part numbers SExxxxH-USxMvxxxx only support the SolarEdge Energy Bank. The part numbers SExxxxH-USxNvxxxx support both SolarEdge Energy Bank and LG RESU Prime batteries Requires supporting inverter firmware



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SHEET NAME **EQUIPMENT SPECIFICATION**

SHEET SIZE

ANSI B 11" X 17"

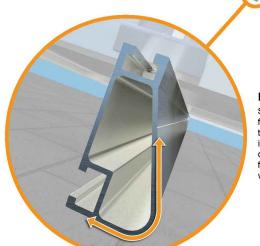
SHEET NUMBER

Requires supporting inverter infinited 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.

Compatible with Flat & Pitched Roofs



XR Rails are compatible with FlashFoot and other pitched roof attachments.



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

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 finishInternal 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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36 STONE WOOD LN, SANFORD, NC 27332

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SHEET NAME
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SPECIFICATION

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

PV-13

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UFO Family of Components

Simplified Grounding for Every Application

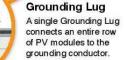
The UFO family of components eliminates the need for separate grounding hardware by bonding solar modules directly to IronRidge XR Rails. All system types that feature the UFO family—Flush Mount, Tilt Mount and Ground Mount—are fully listed to the UL 2703 standard.

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 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.

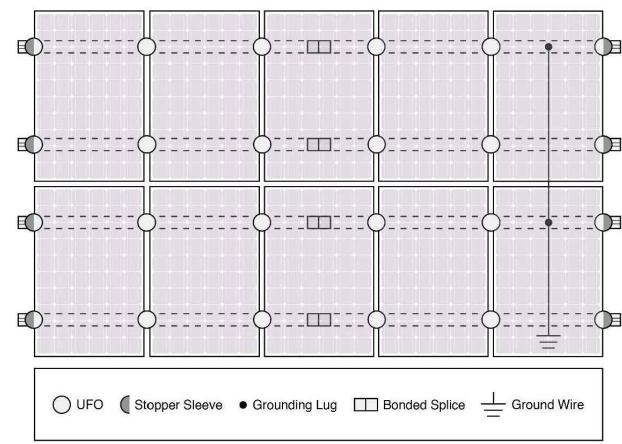
Bonded Splice Each Bonded Splice uses self-drilling screws to form a secure connection. No bonding strap needed.



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.

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	~	~	4
Bonded Splice	~	~	N/A
Grounding Lugs	1 per Row	1 per Row	1 per Array
Microinverters & Power Optimizers	Darfon - N	0-72, M250-60, M 11G240, MIG300, C P320, P400, P405	
Fire Rating	Class A	Class A	N/A
Modules	INCHESTING NO. 1 CONTRACTOR	ated with over 400 lation manuals for	



TOP TIER SOLAR SOLUTIONS

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

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36 STONE WOOD LN, SANFORD, NC 27332

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SHEET NAME
EQUIPMENT
SPECIFICATION

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER



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.



Single Socket Size

A custom-design lag bolt allows

you to install FlashFoot2 with

the same 7/16" socket size

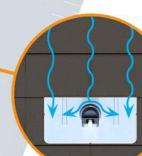
used on other Flush Mount

System components.

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.



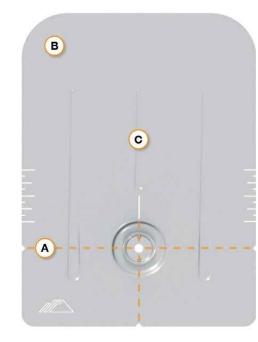
FlashFoot2's seal architecture utilizes three layers of protection. An elevated platform diverts water away, while a stack of rugged components raises the seal an entire inch. The seal is then fully-encapuslated by the Cap. FlashFoot2 is the first solar attachment to pass the TAS-100 Wind-Driven Rain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



Water-Shedding Design

An elevated platform diverts water away from the water seal.

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.

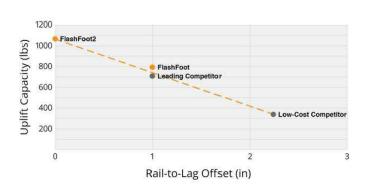
C Reinforcement Ribs

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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36 STONE WOOD LN, SANFORD, NC 27332

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SHEET NAME
EQUIPMENT
SPECIFICATION

SHEET SIZE

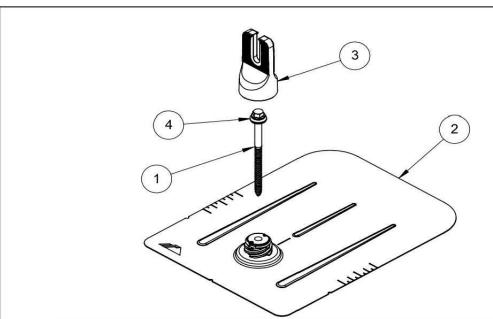
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SHEET NUMBER PV-15

v2.0



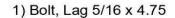
FlashFoot2®

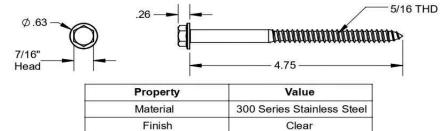


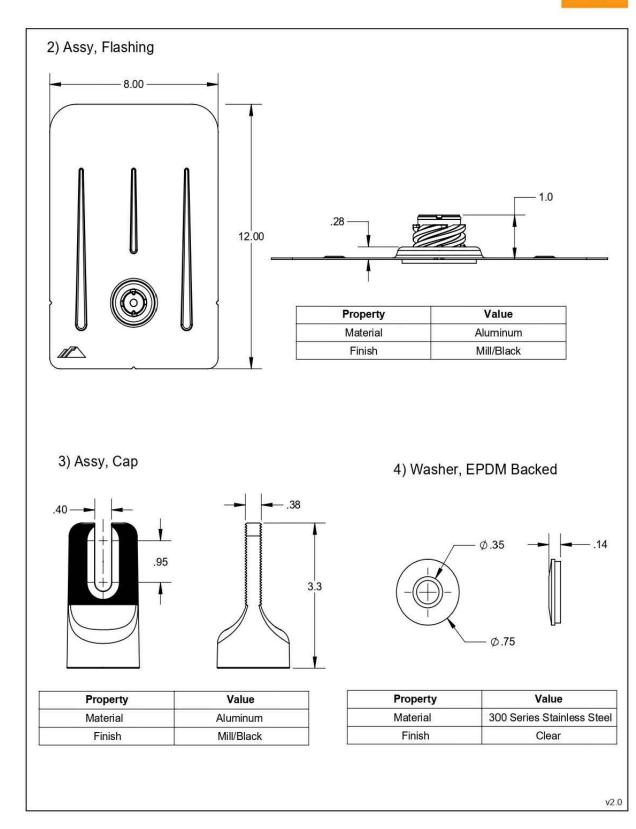
ITEM NO.	DESCRIPTION	Qty in Kit
1	BOLT LAG 5/16 X 4.75"	1
2	ASSY, FLASHING	1
3	ASSY, CAP	1
4	WASHER, EPDM BACKED	1

FLASHFOOT 2

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







TOP TIER SOLAR SOLUTIONS

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

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SHEET NAME **EQUIPMENT SPECIFICATION**

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER



Basic Features

- Stamped Seamless Construction
- 18 Gauge Galvanized Steel
- Powder Coated Surfaces
- · Flashes into the roof deck
- 3 Roof deck knockouts .5", .75", 1"
- 5 Centering dimples for entry/exit fittings or conduit
- 2 Position Ground lug installed
- Mounting Hardware Included



SolaDeck Model SD 0783



SolaDeck UL50 Type 3R Enclosures

Available Models: Model SD 0783 - (3" fixed Din Rail) Model SD 0786 - (6" slotted Din Rail)

SolaDeck UL 1741 Combiner/Enclosures

Models SD 0783-41 and SD 0786-41 are labeled and ETL listed UL STD 1741 according to the UL STD 1741 for photovoltaic combiner enclosures.

Max Rated - 600VDC, 120AMPS

Model SD 0783-41 3" Fixed Din Rail fastened using Norlock System

**Typical System Configuration

- 4- Din Rail Mounted Fuse Holders 600VDC 30 AMP
- 1- Power Distribution Block 600VDC 175AMP
- 1- Bus Bar with UL lug

Model SD 0786-41 6" Slotted Din Rail fastened using steel studs

**Typical System Configuration

- 4- Din Rail Mounted Fuse Holders 600VDC 30 AMP
- 4- Din Rail Mounted Terminal Blocks Bus Bars with UL lug

**Fuse holders and terminal blocks added in the field must be UL listed or recognized and meet 600 VDC 30 AMP 110C for fuse holders, 600V 50 AMP 90C for rail mounted terminal blocks and 600 V 175 AMP 90C for Power Distribution Blocks. Use Copper Wire Conductors.



Cover is trimmed to allow conduit or fittings, base is center dimpled for fitting locations.



Model SD 0783-41, wired with Din Rail mounted fuse holders, bus bar and power distribution block



Model SD 0786-41, wired with Din Rail mounted fuse holders, terminal blocks and bus bars.

RSTC Enterprises, Inc • 2219 Heimstead Road • Eau Cliare, WI 54703 For product information call 1(866) 367-7782



TOP TIER SOLAR SOLUTIONS

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

REVISIONS		
DESCRIPTION	DATE	REV
INITIAL DESIGN	04/28/2023	

PROJECT NAME & ADDRESS

36 STONE WOOD LN, SANFORD, NC 27332

MARIA T FLORES ZARATE RESIDENCE

DRAWN BY

SHEET NAME
EQUIPMENT
SPECIFICATION

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER