

ROOF MOUNT PHOTOVOLTAIC SYSTEM

CODES:

THIS PROJECT COMPLIES WITH THE FOLLOWING:
2020 7TH EDITION FLORIDA BUILDING CODE: BUILDING
2020 7TH EDITION FLORIDA BUILDING CODE: RESIDENTIAL
2020 7TH EDITION FLORIDA BUILDING CODE: MECHANICAL
2020 7TH EDITION FLORIDA BUILDING CODE: PLUMBING
2020 7TH EDITION FLORIDA BUILDING CODE: FUEL GAS
2020 7TH EDITION FLORIDA BUILDING CODE: FUEL GAS
2020 7TH EDITION FLORIDA BUILDING CODE: ENERGY CONSERVATION

2020 7TH EDITION FLORIDA BUILDING CODE. ENERGY CONSERVA 2020 7TH EDITION FLORIDA BUILDING CODE: ASCRESSIBILITY 2020 7TH EDITION FLORIDA BUILDING CODE: ACCESSIBILITY 2020 7TH EDITION FLORIDA FIRE PREVENTION CODE (NFPA) 2017 NATIONAL ELECTRIC CODE (NEC) AS ADOPTED BY COLUMBIA COUNTY (FL)

VICINITY MAP:



ABLE OF CONTE	NTS:
PV-1	SITE LOCATION
PV-2	SITE PLAN
PV-2A	ROOF PLAN WITH MODULES LAYOUT
PV-2B	ROOF AND STRUCTURAL TABLES
PV-3	MOUNTING DETAILS
PV-4	THREE LINE DIAGRAM
PV-5	CONDUCTOR CALCULATIONS
PV-6	EQUIPMENT & SERVICE LIST
PV-7	LABELS
PV-7A	SITE PLACARD
PV-8	OPTIMIZER CHART
PV-9	SAFETY PLAN
PV-10	SAFETY PLAN
APPENDIX	MANUFACTURER SPECIFICATION SHEETS

CONSTRUCTION NOTES:

CONDUIT AND CONDUCTOR SPECIFICATIONS ARE BASED ON MINIMUM CODE REQUIREMENTS AND ARE NOT MEANT TO LIMIT UP-SIZING AS REQUIRED BY FIELD CONDITIONS.

ALL SOLAR ENERGY SYSTEM EQUIPMENT SHALL BE SCREENED TO THE MAXIMUM EXTENT POSSIBLE AND SHALL BE PAINTED A COLOR SIMILAR TO THE SURFACE UPON WHICH THEY ARE

MODULES SHALL BE TESTED. LISTED AND INDENTIFIED WITH FIRE CLASSIFICATION IN ACCORDANCE WITH UL 2703. SMOKE AND CARBON MONOXIDE ALARMS ARE REQUIRED PER SECTION R314 AND 315 TO BE VERIFIED AND INSPECTED BY INSPECTOR IN THE FIELD.

DIG ALERT (811) TO BE CONTACTED AND COMPLIANCE WITH EXCAVATION SAFETY PRIOR TO ANY EXCAVATION TAKING PLACE

PHOTOVOLTAIC SYSTEM GROUND WILL BE TIED INTO EXISTING GROUND AT MAIN SERVICE FROM DC DISCONNECT/INVERTER AS PER 2017 NEC SEC 250.188(A).

SOLAR PHOTOVOLTAIC SYSTEM EQUIPMENT WILL BE INSTALLED IN ACCORDANCE WITH REQUIREMENTS OF ART. 590 OF THE 2017 NEC.

THE MAIN SERVICE PANEL WILL BE EQUIPPED WITH A GROUND ROD OR UFER

UTILITY COMPANY WILL BE NOTIFIED PRIOR TO ACTIVATION OF THE SOLAR PV SYSTEM

SOLAREDGE OPTIMIZERS ARE LISTED TO IEC 62109-1 (CLASS II SAFETY) AND UL 1741 STANDARDS INSTALL CREW TO VERIFY ROOF STRUCTURE PRIOR TO COMMENCING WORK. EMT CONDUIT ATTACHED TO THE ROOF USING CONDUIT MOUNT.

WIND SPEED: 119 MPH CATEGORY C EXPOSURE

NOTE :-

- 1. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE FRAMING SIZES, SPACINGS, AND SPANS NOTED IN THE STAMPED PLANS AND ACCOMPANYING CALCULATIONS AND NOTIFY THE ENGINEER OF RECORD OF ANY DISCREPANCIES PRIOR TO STARTING CONSTRUCTION.
- 2. THESE PLANS ARE STAMPED FOR STRUCTURAL CODE COMPLIANCE OF THE ROOF FRAMING SUPPORTING THE PROPOSED PV INSTALLATION REFERENCED ONLY. THESE PLANS ARE NOT STAMPED FOR WATER LEAKAGE. PV MODULES, RACKING, AND ATTACHMENT COMPONENTS MUST FOLLOW MANUFACTURER GUIDELINES AND REQUIREMENTS.
- 3. PLEASE SEE THE ACCOMPANYING STRUCTURAL CALCULATIONS REPORT FOR DETAILS REGARDING CALCULATIONS AS WELL AS LIMITS OF SCOPE OF WORK AND LIABILITY

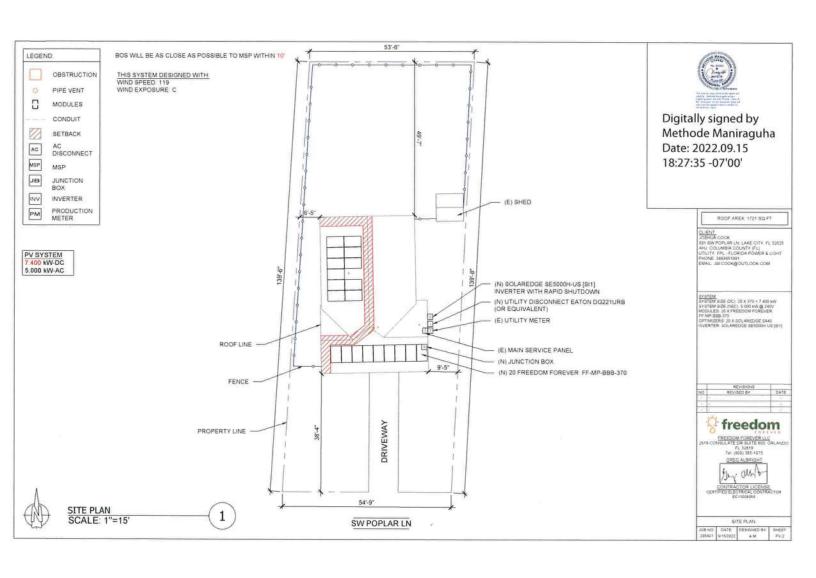


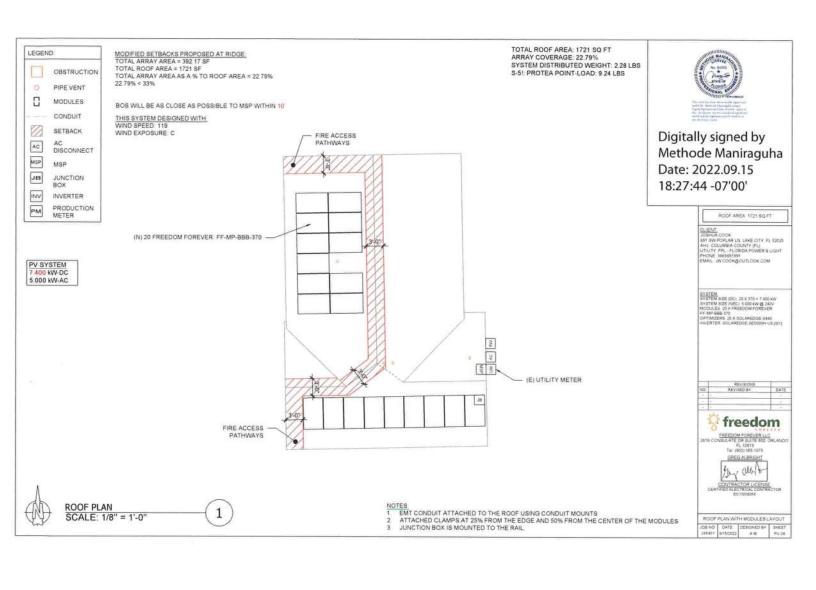
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ROOF DETAILS:

TOTAL ROOF AREA: 1721 SQ FT ARRAY COVERAGE: 22.79% SYSTEM DISTRIBUTED WEIGHT: 2 28 LBS S-51: PROTEA POINT-LOAD: 9.24 LBS



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	W.V.		ROOF AREA	STATEMENT		
ROOF	MODULE QUANTITY	ROOF PITCH	ARRAY PITCH	AZIMUTH	ROOF AREA	ARRAY AREA
ROOF 1	11	12	12	269	578 SQ FT	215.7 SQ FT
ROOF 2	9	12	12	179	428 SQ FT	176.48 SQ FT
	****	person.	5400	****	SQ FT	SQ FT
	****	****	9444	****	SQ FT	SQ FT
444	****		person	1000	SQ FT	SQ FT
-		200	****	****	SQ FT	SQ FT
	100	(100)			SQ FT	SQ FT
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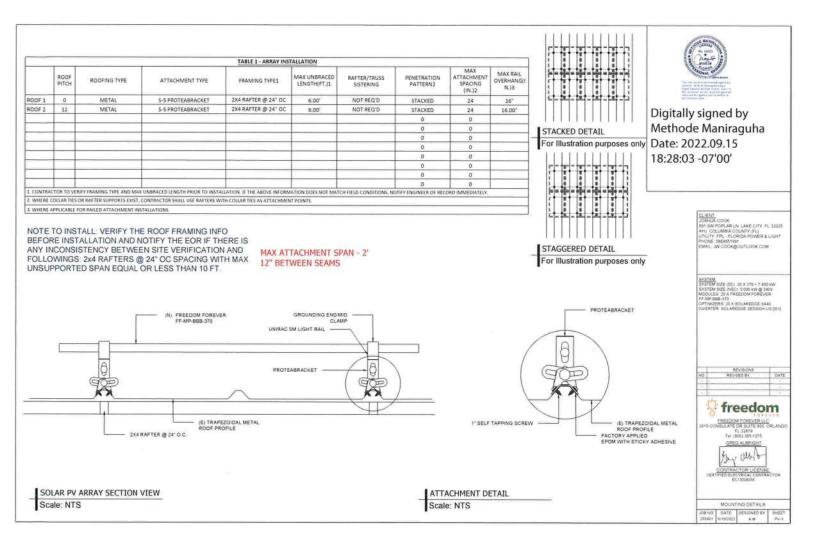
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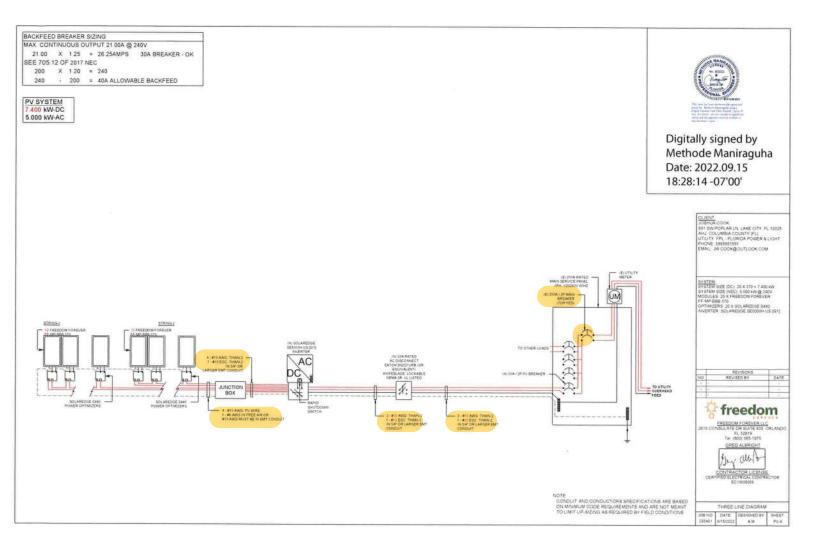
SYSTEM
SYSTEM SPZE SOCI 20 X 370 = 7 F00 KW
SYSTEM SPZE SHEC) 5 200 KW & 240V
MODULES 20 X FREEDOM FOREVER
FF.MM-BBS 310 SOLAREDGE SAMD
OPTIMIZERS 20 X SOLAREDGE SAMD
WWESTER SOLAREDGE SESSOOM-LUS [31]

ACCOSCIO DE CATE

SE PRODUCTION DE CONTRACTOR LICENSE

CONTRACTOR





MODULE INFO
MAKE/MODEL FREEDOM FOREVER FF-MP-888-370
Voc. 41.9 V
Vmp. 34.4 V
Isc. 11.29 A
Imp. 10.76 A
STC RATING. 370 W
PTC RATING. 370 W

MAX DC CURRENT Imax MAX AC CURRENT Imax

= 1 25 X (OPTIMIZER OUTPUT CURRENT) = 1.25 X 15 = 18.75A = 1.25 X (SUM OF MAX CONTINUOUS OUTPUT CURRENT FROM INVERTERS) = 1.25 X (21.00) = 26.25A



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				WIRE	SCHED	ULE					
EQUIPMENT			CONDUCTOR QTY.	AWG WIRE SIZE	STARTING ALLOWABLE AMPACITY @ 90°C 310.15(B)(16)	STARTING CURRENT APPLIED TO CONDUCTORS IN RACEWAY	TEMPERATURE CORRECTION FACTOR 310 15(B)(2)(a)	ADJUSTMENT FACTOR FOR MORE THAN 3 CONDUCTORS 310.15(B)(3)(a)	ADJUSTED CONDUCTOR AMPACITY @ 90°C	MAXIMUM CURRENT APPLIED TO CONDUCTOR IN RACEWAY	
DC	Charles Annual Charles	TO	OPTIMIZER	2	10	40	14.11	0.96	1	38.40	17.64
DC	OPTIMIZER	TO	JUNCTION BOX	2	10	40	15.00	0.96	1	38.40	18.75
DC	JUNCTION BOX	TO	INVERTER	4	10	40	15.00	0.96	0.8	30.72	18.75
AC	INVERTER	TO	AC DISCONNECT	3	10	40	21.00	0.95	1	38.40	26.25
AC	AC DISCONNECT	TO	POI	3	10	40	21.00	0.96	- 1	38.40	26 25
	DC	DC MODULE DC OPTIMIZER DC JUNCTION BOX AC INVERTER	DC MODULE TO DC OPTIMIZER TO DC JUNCTION BOX TO AC INVERTER TO	DC MODULE TO OPTIMIZER DC OPTIMIZER TO JUNCTION BOX DC JUNCTION BOX TO INVERTER AC INVERTER TO AC DISCONNECT	EQUIPMENT CONDUCTOR OTY. DC MODULE TO OPTIMIZER 2 DC OPTIMIZER TO JUNCTION BOX 2 DC JUNCTION BOX TO INVERTER 4 AG INVERTER TO AC DISCONNECT 3	EQUIPMENT CONDUCTOR OTY. AWG WIRE SIZE	EQUIPMENT CONDUCTOR OT AWG MIRE AUGUSTA AWG MIRE AUGUSTA AUGUS	EQUIPMENT CONDUCTOR OTY AWG STARTING ALLOWABLE AMPACTY 99 0°C SIZE AMPACTY 99 0°C 310.15(B)(16) CONDUCTORS AMPACTY 99 0°C 310.15(B)(16) CONDUCTORS AMPACTY 99 0°C AMPACTY 99 0°C AMPACTY 99 0°C AMPACTY 99 0°C ACCEPTANT 100.15(B)(16) CONDUCTORS ACCEPTANT 100.15(B)(16) ACCEPTANT 100.15(B)(16)	EQUIPMENT CONDUCTOR AWG STARTING ALLOWABLE AMPACITY (@ 90°C) FACTOR STARTING CURRENT FACTOR STARTING CORRECTION FACTOR 310.15(B)(16) 11 10 10 10 10 10 10 1	EQUIPMENT CONDUCTOR OTY AWG OTY AWG OTY STARTING ALLOWABLE CURRENT CORRECTION SIZE AMPACITY 99 90°C 310.15(8)(16) CONDUCTORS 310.15(8) CO	CONDUCTOR OTY AWG OTY

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AND COLUMBIA COUNTY (FL)
UNITY FPL - FLORIDA FOWER & DIGHT
PHONE SIRKSTSST
EMAIL IN COOK@OUTLOOK COM

SYSTEM SIZE (DC) 20 X 370 = 7 400 KW SYSTEM SIZE (DC) 20 X 370 = 7 400 KW SYSTEM SIZE (HICC) 5 000 KW @ 26V MODILLE 20 X FREEDOM FOREVER FF. MS 988. 170 OFFINZERS 20 A SOLAREDGE \$440 WWERTER SOLAREDGE \$4500M-US [S1]

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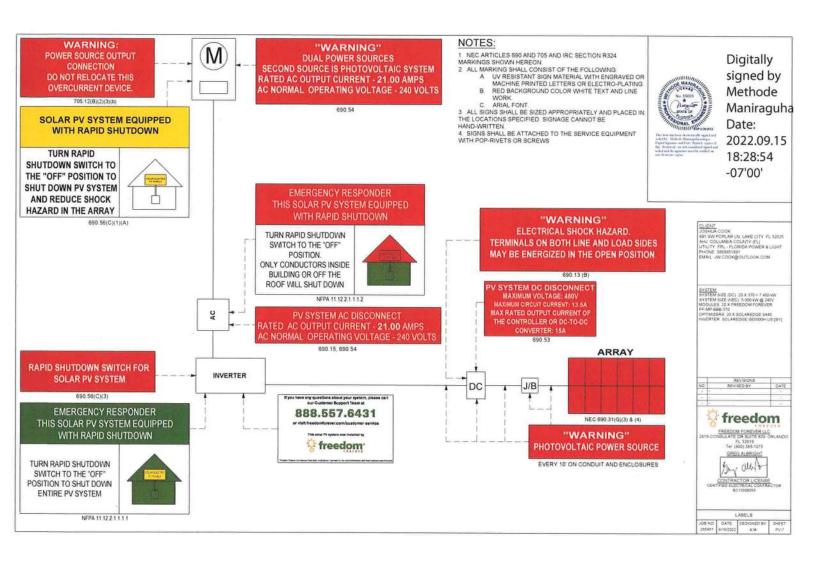
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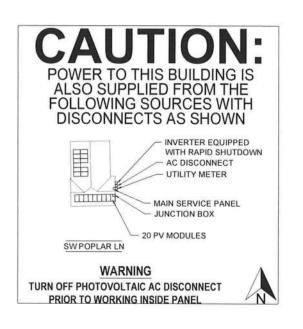
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MATI	ERIAL LIST:			Date: 2022.09.15
	PART	DADY #	DECEMBER 1	
20	MODULES	PART #	DESCRIPTION FREEDOM FOREVER FF-MP-888-370	18:28:41 -07'00'
20	OFTIMIZERS	\$440	FREQUOM CHRISTIN FOR MISSIBILITY OF THE STATE OF THE STAT	A 2022-2024-2020-0-10-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
1	JUNCTION BOX	480-278	SOUNCE NEWS PLANTED UNIVERSOR FROM SOUNCE SO	
2	CONNECTORS	240-300	STAUBLY MULTI-CONTACT MC4 COMMECTORS (FEMALE)	
2	CONNECTORS	240-301	STAUBLI / MULTI-CONTACT MC4 CONNECTORS (MALE)	
1	INVERTER	PW-120-501	555000H-US [SIT] 240V RIVERTER UL1741 SA CERTIFIED INTEGRATED ARC FAULT PROTECTION AND RAPID SHUTDOWN	
.1	AC DISCONNECT ROOF ATTACHMENT 1	321-030	30A RATED 340YAC NEMA 3R UL LISTED	CLENT XOSHLA COOK
194	RAL 1	240-451	S-5! PROTEA UNIRAG SW LIGHT RAIL 168 NO! (TOTAL 367 FEET NEEDED)	391 SW POPLAR LN LAKE CITY FL 32025
40	RAIL HARDWARE 1	261-517	BID THE DUTY HAVE NOT SEE THE PROPERTY OF THE DESCRIPTION OF THE DESCR	AHJ COLUMBIA COUNTY (FL) UTILITY FPL - FLORIDA POWER & UGHT
42	MODULE CLAMPS 1	221-101	SW MIDCLAND FROM SS	PHONE 3863651951
42	MODULE CLAMPS 1	221-202	SM ENDOLAMP PRO WIEND CLAMP	EMAIL JW.COCK@GUTLOCK.COM
14	SPLICE 1	261-600	BIVD SFLICE BAR PRO SERIES MILL	
42	MUPE MOUNT 1	261-510	MICRO MAT BND TBOLT SS	
11	ACCESSIORIES 1	211-202	E-BOSS CONDUIT MOUNT COMP KIT	
22 8	ACCESSORIES 1	211-200	E-BOSS RAIL TRAY	32-31TEM 97-515M 902E (00) 20 X 310 × 7 400 WW 97-515M 902E (10) 7-500 WW 92-90 MODULES 30 X FREEDOM FOREVER
12	ACCESSORIES 1	211-205	E-BOSS BRIDGE TRAY E-BOSS BRIDGE CUPS	SYSTEM SIZE (DC) 20 X 570 × 7 400 4W SYSTEM SIZE (NEC) 5 000 4W 8 740V
54	GROUNDING LUG 1	260-300	EUROS BRITALE CLYS BURNOY GROWN WEBLUDG	MODULES 30 X FREEDOM FOREVER FF MAR BERS 370
58	LFOOT 1	241-100	UNRAC L'FOOT SERRATED WIT BOLT CLEAR INIT)	OPTIMIZERS 20 X SOLAREDGE S440
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				FREEDOM FOREVER LLC 3619 CONSULATE DR SUITE 603, ONLANDO
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				Tel (800) 385-1075
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				EQUIPMENT & SERVICE LIST JOBNO DATE DESIGNED BY SHEET



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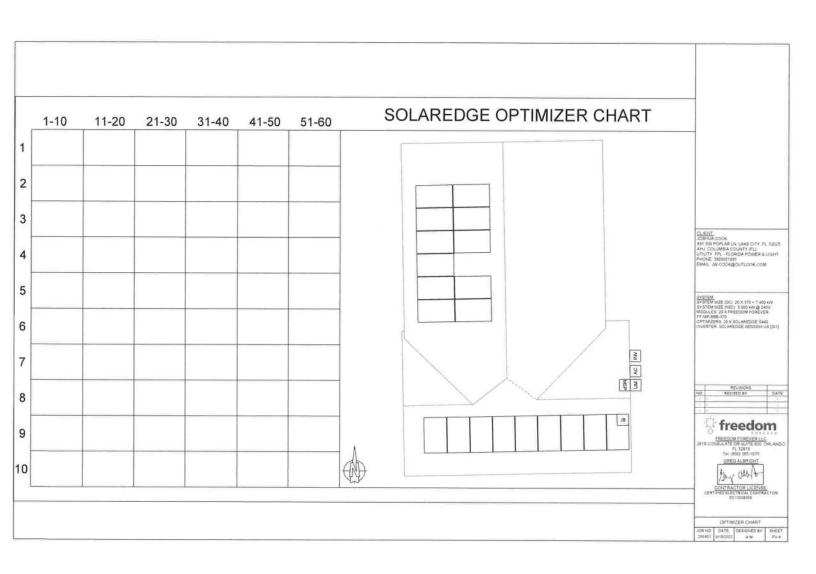
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NOTES:

- 1. NEC ARTICLES 690 AND 705 AND IRC SECTION R 324 MARKINGS SHOWN HEREON.
 2. ALL MARKING SHALL CONSIST OF THE FOLLOWING.
 4. UV RESISTANT SIGN MATERIAL WITH ENGRAVED OR MACHINE PRINTED LETTERS OR ELECTRO-PLATING.
 5. RED BACKGROUND COLOR WHITE TEXT AND LINE WORK.
 6. AERIAL FONT.
 7. ALL SIGNS SHALL BE SIZED APPROPRIATELY AND PLACED IN THE LOCATIONS SPECIFIED. SIGNAGE CANNOT BE HAND-WRITTEN.
 7. SIGNS SHALL BE ATTACHED TO THE SERVICE EQUIPMENT WITH POP-RIVETS OR SCREWS.



SAFETY PLAN								N	MARI	K UP	KEY
INSTRUCTIONS: 1. USE SYMBOLS IN KEY TO MARK UP THIS SHEET. 2. SAFETY PLAN MUST BE MARKED BEFORE JOB STARTS AS PART OF THE PRE-PLAN 3. DOCUMENT ALL ADDITIONAL HAZARDS ON THIS PAGE & MAKE NOTES ON THE JMA SHEET							T IL B	TEMPOF		CHOR	юх
IN CASE OF EMERGENCY INJURY HOTLINE (855) 400-7233		1_						SKYLIGH NO LADI	HT DER ACC	ESS (STI	
NEAREST HOSPITAL OR OCCUPATIONAL/INDUSTRIAL CLINIC NAME: ADDRESS:								OBSTRU	CTED AC)	CLENT JOSHUA GOK SIS SW POPLAR IA JAME CITY, FL 13025 AHI COLLABIA COUNTY (FL UTLITY FR, FL 908TBA POWER & LIGHT PHONE 388981991 EMAL, ANY COONEGO WILLOWS COM
SAFETY COACH CONTACT INFORMATION NAME: PHONE NUMBER:							(GAS)	CONDUI GAS SHI WATER		F	SYSTEM SYSTEM SUE (DC), 20 X 370 + 7 400 WW SYSTEM SUE (NEC) S 000 WW & 260 MODULES SY FREEDOM FOREVER
ALL EMPLOYEES ON SITE SHALL BE MADE AWARE OF THE SAFETY PLAN AND SIGN INDICATING THAT THEY ARE AWARE OF THE HAZARDS ON-SITE AND THE PLAN FOR WORKING SAFELY.		W POPLAR LN					7	SERVICE POWER	100 (100 A)(A)(A)(A) (A) (A)		POWDLES SO A PRESIDENT MEETER FY AMPERS 30 X BOLAREDGE S440 INVERTER SOLAREDGE SESSON-US (ST)
NAME SIGNATURE								_			
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	THIS LOG IS TO BE FILLED OUT ANY TIME THE TEMP EXCEEDS 90 DEGREES THE CREW LEAD AND ROOF LEAD ARE RESPONSIBLE FOR ENSURING THIS IS COMPLETED AND UPLOADED AT THE END OF EVERYDAY WHEN TEMPS EXCEED 90 DEGREES							1 2 2			
	NAME	0800HRS	0900HRS	1000HRS	1100HRS	1200HRS	1300HRS	1400HRS	1500HRS	1600HRS	FREEDOM FORDURE (LC 2619 CONSULATE DE SUITE 300 CALANDO THI (80) 385-1075
											FL 33319 TW (800) 365-975 GREG ALBRICHT CONTRACTOR LICENSE CENTRED RECTIONS CENTRED RECTIONS
DATE: TIME:											SAFETY PLAN JOB NO DATE DESIGNED BY SHEET 263401 SHEET AM Pvg

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Ladder Access		Crew leader responsible for communication with the client.	Heat Related Illness Prevention	NOTE ADDITIONAL HAZARDS NOT ADDRESSE			
Ladders must be inspected before each use Extension ladders must be set up on a firm and level surface at		Clark and colored	 Employees shall have access to potable drinking water that is 		(add as many as necessary by using additional s		
a 4-to-1 rise to run angle (or 75 degrees) and the top must be	1	Client and public is excluded from work area by barricades (N/A, Yes, No)	fresh, pure, and suitably cool. The water shall be located as		Define the Hazard	Method/steps to prevent	

secured to the structure. Extension style ladders placed on

secure as the structure. Extension style ladders placed on uneven, losse or slippery suffices must additionally have the base firmly anchored or fashed so the base will not slip out Extension ladders must be used with walk-through devices or the ladder must extend 35° above the stepping off point. A-frame ladders must only be climbed with the ladder spreader bars locked in the open position. A-frame ladders shall not be climbed while in the closed position (ex. closed and used while leaned against a structure).

leaned against a structure)
Additional notes

Mobile Equipment

Only Qualified operators will operate equipment, operators must maintain a certification on their person for the equipment being operated

Type(s) of mobile equipment (Type/Make/Model):

Qualified operator(s):

Material Handling and Storage

Materials will be staged/stored in a way that does not present a hazard to client, personnel or public. Materials stored on the roof will be physically protect from failing or sliding off.

Fall Protection

A site-specific plan for fall prevention and protection is required prior to starting work and must remain onsite at all times until work is complete, a fall rescue plan must be outlined and discussed among the crew prior to work start:

First-person-Up (FPU) must install their anchor and connect before any other task, including installing other anchors. The Last-Person-Down (LPD) must be the only person on a roof uninstalling fall protection.

- uninstalling fall protection FPCP (name and title):
- FPU and LPD (name and title)

Electrical Safety

The Electrical Qualified Person (EQP) is required onsite to

The Electrical Quantities remain that the perform electrical work.

All electrical work will be performed with equipment in an electrically safe condition (de-energized) unless approval has Service drops and overhead electrical hazards will be indentified

and protected from contact, as neccessary EQP (name and tile)

Public Protection

The safety of the Client and Public must be maintained at all

times.

The Client and the Public shall be prevented from entering the work zone through the use of barriers and/or signage, as required Company, Client and Public property shall be protected from

falling objects.
Pets (including dogs) shall be secured by their owners prior to

rets (including dogs) shall be secured by their owners prior to work start. The Client should not leave pets, family members, or others in charge or care of Employees, Contractors, or Temporary Workers.

Training and Pre-Job Safety Briefing

All employees onsite shall be made aware of the specific hazards of this project and review this HJA during a pre-job briefing, and their signature indicates awareness of site conditions and the plan to eliminate any hazards identified prior to and during the project.

Crew leader (name/title)

Crew member (name/title) Crew member (name/title

Crew member (name/title) Crew member (name/title)

Crew member (name/http:

Airborne Contaminants

ome Contaminants:

Assests-containing (Transite) piping (ACP) - Do not disturb (move, drill, cut fracture, etc.)

Assests-containing the main insulation (ACI) and

Assests-containing duct wrapping (ACW) - do not disturb, no attic or crawlespace access is allowed if work to be performed could cause exposure to personnel, client or public.

If yes, list specific tasks and protection in place

Weather and Environment

The side supervisor shall forecast the weather conditions at the job site, prior to crew arrival, in order to mitigate any hazards associated with inclement weather (heat, cold, wind, rain, etc.)

The side supervisor will utilized a portable wind meter (anemometer) to verify actual oneste wind conditions, by checking at the ground and on any elevated work surface (ex, rooftop) prior to work start, at midday and prior to solar panel staging on a

roof.
Elevated work involving the moving or maneuvering of solar panels shall cease at 25mph (sustained wind) until wind.

subsides Forecasted weather maximum temp (degrees f)

close as practicable to the areas where employees are working of the work shift to provide at least one quart per employee per hour for drinking for the employee per hour for drinking for the entire shift. Employees may begin the shift with smaller quantities of water if they identify the location and have effective means for replenishment during the shift to allow employees to drink on quart or more per hour. The frequent drinking of water shall be encouraged.

requent ormong of water shall be encouraged. Shade shall be present when temperature exceeds 80 degrees. Fahrenheit. When the outdoor temperature in the work exceeds 80 degrees. Fahrenheit, employees shall have and maintain one or more areas with shade at all times. New employees must be acciminatized. New employees will be monitored by their Crew Leader (site supervisor) for the first two (2) weeks of employment or fonce when necessary.

monitored by their Crew Leader (site supervisor) for the first twa (2) weeks of employment of longer when necessary. Employees will be allowed and encouraged to implement scheduled breaks during each shift. Employees must take cool-down breaks unit may be shift. Employees must take cool-down breaks in the shade any time they feel the need to do so to protect them from overheating. Supervisors are REQUIRED to allow employees any break period they need during high heat conditions. Cool Vests are encouraged for all employees at all times during periods of high heat. Onclude the conditions conditions are encouraged for all employees at all times during periods of high heat.

What is the specific plan to provide and replenish sufficient water for

all employees on site?

If offsite replenish is necessary, where will you go to replenish water (location/address):

Who will replenish the drinking water (name)

Restroom facilities

Employees shall have access to restroom facilities with hand-washing stations. Use of onate restroom is at the client's discretion (location is annotate below) if client does not give permission, location of suitable restroom facilities with hand-washing stations offitie will be provided. The onsite supervisor will identify location and make arrangements to ensure all employees have access at any point.

Restroom facilities will be (circle one). Onsite - Offsite

If Offsite, add location name and address.

Contact your Site Supervisor
 Name

Phone

Contact your Manager Name

Phone

Contact your Site Supervisor Name

Phone

With: Your full name, phone number, office location, brief description of what happen and when

ABOVE

Define the Hazard	Method/steps to prevent incident
Define the Hazard	Method/steps to prevent incident
Define the Hazard	Method/steps to prevent incident
Define the Hazard	Method/steps to prevent incident

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HILL COLUMBIA COUNTY FL)
JUILLY FR. FLORIDA POWER & LIGHT
PHORE 186561991
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SYSTEM SZE (DC) 20 X 370 = 7 400 kW SYSTEM SZE (BC) 3 000 kW @ 240V MODULES 20 X FREEDOM FOREVER KY AP 466-370 AMP 868-310 PTIMZERS 20 X SOLAREDGE 5440 VERTER SOLAREDGE SESOXXH US [S1]

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261	FREEDOM FOREVER SONSULATE DR SILITE SO FI 325'S TH (50') MS-107' OREO AL SRIGHT CONTRACTOR LICEY CONTRACTOR LICEY	

AEVISIONS



120 HALF-CELL MONOFACIAL MODULE FF-MP-BBB-370



High module conversion efficiency up to 20.31%



Excellent weak light performance



Withstanding harsh environment



Lower operating temperature



Extreme weather loading





CERTIFICATIONS AND STANDARDS











FF-MP-BBB-370 Module Specifications

§ freedom

ELECTRICAL CHARACTERISTICS	
Characteristics	FF-MP-BBB-370
Maximum Power (Pmax)	370W
Maximum Power Voltage (Vmp)	34.40V
Maximum Power Current (Imp)(A)	10.76A
Open Circuit Voltage (Voc)(V)	41.90V
Short Circuit Current (Isc)(A)	11.29A
Module Efficiency	20.31%
Operating Module Temperature	-40 °C to +85 °C
Power Tolorance	0/+5W
STC	Irradiance of 1000W/m ¹ AM1.5.call Temperature 25°C

MECHANICAL CHARACTERISTICS

Cell Type	Moso perc, 186mm-half cells,120(6x10+6x10)
Weight	20.3 kgs (44.8 ibs.)
Dimension	1755 x 1038 x 35mm. (65.09449 x 40.87 x 1.38in.)
Superstructure	High Transmission, Low Iron & Semi-Tempered Glass (3.2 mm)
Junction Box	1200 mm
Connector	Staubii EVO2
Frame & Installation	Anodized aluminum profile

OPERATIONS CHARACTERISTICS

Fire Rating	Type 1
Safety Class	Class II
Max Series Fuse Rating	20A (EU)
Max System Voltage	1500VDC (EU)
Operational Temperature	-40°C-+35°

TEMPERATURE RATINGS

-0.36%/°C
-0.384%/°C
+9.650%/°C
42'C±2'C

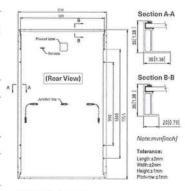
MECHANICAL LOADING

Snow Load	5,400 Pa (113 lb/ft')
Rear Side Design Load	2,400 Pa (50 lb/ft/5

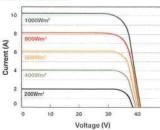
Container	50. Gb	40 HC
Pallets per Container	6	26
Preces per Container	186	805
Pieces per Patiet	31	31
Packaging Box Weight	679 kg. (1497 (b)s.)
Packaging Box Dimensions) x 1180 mm. 19 x 46,46 in.)

CERTIFICATIONS AND STANDARDS





CURRENT-VOLTAGE CURVE



Power Optimizer For North America

S440, S500



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

solaredge.com

- 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
- Meets NEC requirements for arc fault protection (AFCI) and Photovoltaic Rapid Shutdown System (PVRSS)

solaredge

/ Power Optimizer For North America

S440, S500

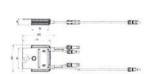
	5440	\$500	Unit
INPUT	THE REPORT OF THE PARTY OF THE		
Rated input DC Power?	440	500	T W
Abulius Mulmum Input Voltage (Vol.)		٥	Vdc
MPPT Operating Range	1-	60	Vdc
Maximum Short Orcylt Current (loc) of Connected PV Module	145	- 15	Ast
Marimum Efficiency	**	3	- X
Weighted Efficiency	9	6	W.
Overvolkage Category			
OUTPUT DURING OPERATION			
Markeum Output Current		5	Adc
Mailmum Dulpul Voltage	-	0	Vdc
OUTPUT DURING STANDBY (POWER OPTIMIZER DISC	ONNECTED FROM INVERTER OR	INVERTER OFF)	- 10
Safety Output Voltage per Power Optimizer	14/	421	950
STANDARD COMPLIANCE		71 7 7 7 7	
Photosokaic Rapid Shutdown System	NEC 2014, 20	117 A 2020	
EVE	FCC Part 15 Class 9. IECE1000-6-3. IECE1000-6-9		
Sufery	EC62'09-16thm	Hisafetys, UCST41	
Material	USAY-0. (V Restant		
RoHS	Yes		
Fire Safety	VDE-AA-E 2100-712-2013-05		
INSTALLATION SPECIFICATIONS	7014-00	No. of the last of	1000
Maximum Allowed System Voltage	10	00	Vác
Dimensions (W e i, e H)	129 + 159 + 30 / 5	27 + 6 52 + 178	angni J'a
Weight (including cables)	635	/15	y/b
Ingut Connector	W.	an .	
You Weilingth	01/		m/h
Ovput Corrector	M	4	
Dutput Wire Length	\$412.1 (10.0)/s		m/A
Operating Temperature Range®	-43 to		,c
Frotection Failing	1968./T	pelá	
Relative Humidity	3-	100	8

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PV System Design Us Inverter	ing a SolarEdge	Single Phase HD-Wave	Three Phase for 208V grid	Three Phase for 277/480V grid	
Minimum String Length (Fower Optimizers)	5440, 3300	1	56	16	
Maximum String Length (Fow	er Optimizens	75		Che .	
Mainum Norteal Fower per	Samo	\$700 (6000 with \$27(00-US-5211400-U)	5000	12750	W
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(harmities) only when the difference in connected power between strage is 1,000W or less).		ARM IS ISSURGES	Two strings or more 7600W	15,000W	
Facility University Different Lan	oths of Drientations		4		









Single Phase Inverter with HD-Wave Technology

for North America

SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US





Optimized installation with HD-Wave technology

- / Record-breaking 99% weighted efficiency
- Quick and easy inverter commissioning directly from a smartphone using the SolarEdge SetApp
- Fixed voltage inverter for longer strings
- Integrated arc fault protection and rapid shutdown for NEC 2014, NEC 2017 and NEC 2020 per article 690.11 and 690.12
- / Specifically designed to work with power optimizers / UL1741 SA certified, for CPUC Rule 21 grid compliance
 - / Small, lightweight, and easy to install both
 - / Built in module-level monitoring
 - Optional Faster installations with built-in consumption metering (1% accuracy) and production revenue grade metering (0.5% accuracy, ANSI C12 20)

solaredge.com



/ Single Phase Inverter with HD-Wave Technology for North America

SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US/ SE7600H-US / SE10000H-US / SE11400H-US

MODEL NUMBER	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	
APPLICABLE TO INVERTERS WITH PART NUMBER	SEXXXXH-XXXXXBXX4							
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INPUT			4					
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/ Single Phase Inverter with HD-Wave Technology

for North America

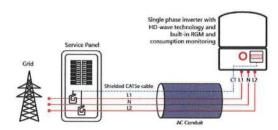
SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US/ SE7600H-US / SE10000H-US / SE11400H-US

MODEL NUMBER	SE3000H-US SE3800H-US SE5000H-US SE6000H-US SE7600H-US SE10000H-US SE11400H-US				S
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How to Enable Consumption Monitoring

By simply wiring current transformers through the inverter's existing AC conduits and connecting them to the service panel, homeowners will gain full insight into their household energy usage helping them to avoid high electricity bills



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RoHS

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pe eaton.com

Eaton general duty non-fusible safety switch

DG221URB

UPC:782113120232

Dimensions:
• Height: 10.81 IN
• Length: 6.88 IN
• Width: 6.38 IN

Weight:6 LB

Notes: WARNING! Switch is not approved for service entrance unless a neutral kit is installed.

Warranties:

Eaton Selling Policy 25-000, one (1) year from the date of installation of the Product or eighteen (18) months from the date of shipment of the Product, whichever occurs first.

- Specifications:
 Type: Non-fusible, single-throw
 Amperage Rating: 30A
 Enclosure: NEMA 3R. Rainproof
 Enclosure Material: Painted galvanized steel
 Fuse Configuration: Non-fusible
 Number Of Poles: Two-pole
 Number Of Wires: Two-wire
 Product Category: General duty safety switch

 - Product Category: General duty safety switch Voltage Rating: 240V

Certifications: - UL Listed

Product compliance: No Data





ProteaBracket** is now made in aluminum. Still the most versatile trapezoidal metal roof attachment solution on the market, the S-SI ProteaBracket just got better!

The bracket features an adjustable attachment base and module attachment options to accommodate different roof profile dimensions and mounting options.

Our pre-applied EPDM gasket with peel and stick adhesive makes installation a snap, ensuring accurate and secure placement the first time.

With no messy sealants, faster installation and a weather-proof fit. ProteaBracket offers you the most versatile solar attachment solution available.

ProteaBracket® can be used for rail mounting or "direct-attach" with S-5! PVKIT"

NEW

888-825-3432 | www.S-5.com |

NOW AVAILABLE IN ALUMINUM



Features and Benefits

- 34% lighter saves on shipping
- Stronger L-Foot™ Load-tested for engineered

- Load-tested for engineered application
 Corrosion-resistant materials
 Adjustable Fits rib profiles up to 3"
 Peel-and-Stick prevents accidental shifting during installation Fully pre-assembled 25-year warranty*

ProteaBracket™ is the perfect solar attachment solution for most trapezoidal rib, exposed-fastened metal roof profiles!

ProteaBracket** is compatible with common metal rooting materials and comes with a pre-applied EPDM gasket on the base.

For design assistance, ask your distributor, or visit www.5-5.com for the independent lab test data that can be used for load-critical designs and applications. Also, please visit our website for more information including metallurgical compatibilities and specifications.

S-51* holding strength is unmatched in the industry.

Multiple Attachment Options:



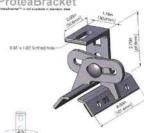
Side Mount Rail



Bottom Mount Rail



w/S-5! PVKIT***
(rail-less) ProteaBracket"



No. second (3) Alignia (4) Secure 2: presong a



Products are professed by multiple U.E. and treeign potents. For published data re-parking holding strength, first troops, patents, and Vadornaks, rist the 3 It entitles are 3.5 Loss.

Distributed by

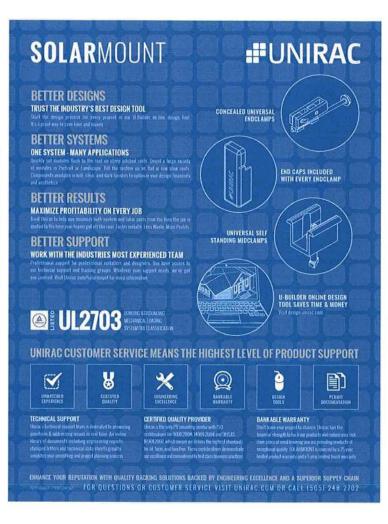
SOLARMOUNT



SOLARMOUNT is the professionals' choice for residential PV mounting applications. Every aspect of the system is designed for an easier, faster installation experience. SOLARMOUNT is a complete solution with revolutionary universal clamps, FLASHKIT PRO, full system UL 2703 certification and 25-year warranty. Not only is SOLARMOUNT easy to install, but best-in-class aesthetics make it the most attractive on any block!









Certificate of Compliance

Certificate: 70131735

Master Contract: 266909

Date Issued:

Project:

Issued To:

1411 Broadway NE Albuquerque, New Mexico, 87102 United States

Attention: Klaus Nicolaedis

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.

Issued by: Michael Hoffnagle Michael Hoffnagle

2021-06-02



PRODUCTS

CLASS - C531302 - POWER SUPPLIES - PHOTOVOLTAICS-PV Racking and clamping systems - PHOTOVOLTAICS-PV Racking and clamping systems - PHOTOVOLTAICS-PV Racking and clamping systems -

Certified to US Standards

Models	SM	SOLARMOUNT Flush-to-Roof is an extruded aluminum rail PV racking system that is installed parallel to the roof in landscape or portrait orientations
	ULA	Unirac Large Array is a ground mount system using the SolarMount (SM) platform for the bonding and grounding of PV modules

Solarmount



Certificate: 70131735 Project: 80082031

Master Contract: 266909

The system listed is designed to provide bonding/grounding, and mechanical stability for photovokiac modules. The system is secured to the roof with the L-Foot components through the roofing material to building structure. Modules are secured to the racking system with stainless steel or aluminum mid clamps and Adminimum end clamps. The modules are bonded to the racking system with the stainless-steel bonding mid clamps with piercing points. The system is grounded with 10 AWG copper wire to bonding/grounding higs. Fire ratings of Class A with Type 1, 2, 3, 10, 19, 22 or 25 for steep slope. Tested at 5" interstital gap which allows installation at any stand-off height.

The grounding of the system is intended to comply with the latest edition of the National Electrical Code, to include NEC 250 & 690. Local codes complaince is required, in addition to national codes. All grounding-bonding connections are to be torqued in accordance with the Installation Manual and the settings used during the certification testing for the current edition of the project report.

The system may employ optimizers/micro-inverters and used for grounding when installed per installation

UL 2703 Mechanical Load ratings

Downward Design Load (lb/ft²)	113.5
Upward Design Load (lb/ft²)	50.7
Down-Slope Load (lb/ft2)	16.13

Test Loads

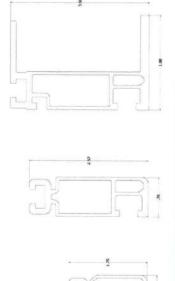
Downward Load (lb/ft²)	170.20
Upward Load (lb/ft²)	76.07
Down-Slope Load (lb/ft²)	24.2

ULA is a ground mount system using the SolutMount (SM) platform for the bonding and grounding of PV modules. ULA aluminum components merge with SM rails and installer-supplied steel pipe. The SM rail system is secured to the horizontal Pipe using the Rail Bracket components. The Rear and Front cap secures the horizontal Pipe to the vertical Pipe. The Front cap is also used to secure the Cross brace. A Shder is attached to the vertical Pipe to secure the Cross brace. The SM rails, caps, shder, rail brackets, and cross braces materials are 104 standards are 104 standards the Porzontal and vertical pipe materials meet the minimum extrusion. Easteners materials are 104 standards are 104 stan

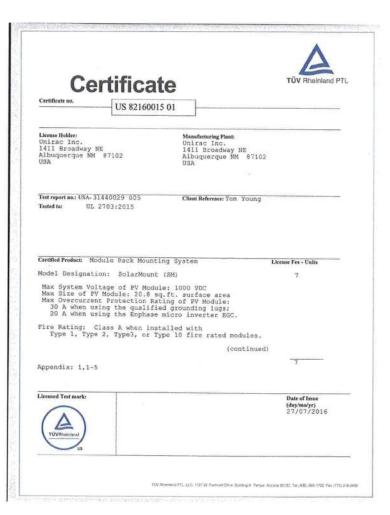
The mechanical load ratings from the SM test data will be applied to the ULA model

Fire Testing is not applicable due to being a ground mount system











January 20, 2021

1411 Broadway Blvd. NE Albuquerque, NM 87102

Re: Engineering Certification for the Unirac U-Builder 2.0 SOLARMOUNT Flush Rail

PZSE, Inc. - Structural Engineers has reviewed the Unirac SOLARMOUNT rails, proprietary mounting system constructed from modular parts which is intended for rooftop installation of solar photovoltaic (PV) panels; and has reviewed the Ubuilder Online tool. This U-Builder software includes analysis for the SOLARMOUNT LIGHT rail, SOLARMOUNT STANDARD rail, and SOLARMOUNT HEAVY DUTY rail with Standard and Pro Series hardware. All information, data and analysis contained within are based on, and comply with the following codes and typical specifications:

- 2020 Florida Building Code, by Florida Building Commission
- Minimum Design Loads for Buildings and other Structures, ASCE/SEI 7-16
- 2018 International Building Code, by International Code Council, Inc. w/ Provisions from SEAOC PV-2 2017.
- 2018 International Residential Code, by International Code Council, Inc. w/ Provisions from SEAOC PV-2 2017.
- AC428, Acceptance Criteria for Modular Framing Systems Used to Support Photovoltaic (PV) Panels, November 1, 2012 by ICC-ES.
- 6. 2015 Aluminum Design Manual, by The Aluminum Association, 2015

Following are typical specifications to meet the above code requirements:

Design Criteria:

Ground Snow Load = 0 - 100 (psf) Basic Wind Speed = 85 - 190 (mph) Roof Mean Height = 0 - 60 (ft) Roof Pitch = 0 - 45 (degrees) Exposure Category = B, C & D

Attachment Spacing:

Per U-builder Engineering report.

Cantilever

Maximum cantilever length is L/3, where "L" is the span noted in the U-Builder online tool.

2" to 10" clear from top of roof to top of PV panel.

Tolerance(s):

1.0" tolerance for any specified dimension in this report is allowed for installation

Installation Orientation:

See SOLARMOUNT Rail Flush Installation Guide.

Landscape - PV Panel long dimension is parallel to ridge/eave line of roof and the PV panel is mounted on the long side.

Portrait - PV Panel short dimension is parallel to ridge/eave line of roof and the PV panel

is mounted on the short side.

1478 Stone Point Drive, Suite 190, Roseville, CA 95661 916.961.3960 | 916.961.3965 | www.pzse.com

Experience | Integrity | Empowement



Components and Cladding Roof Zones:

The Components and Cladding Roof Zones shall be determined based on ASCE 7-16 Component and Cladding design.

Notes:

- 1) U-builder Online tool analysis is only for Unirac SM SOLARMOUNT Rail Flush systems only and do not include roof capacity check.
- - 2) Risk Category II per ASCE 7-16. 3) Topographic factor, kzt is 1.0.
 - 4) Array Edge Factor Y = 1.5
 - 5) Average parapet height is 0.0 ft. 6) Wind speeds are LRFD values.
 - 7) Attachment spacing(s) apply to a seismic design category E or less.

The U-Builder design software is intended to be used under the responsible charge of a registered design professional where required by the authority having jurisdiction. In all cases, this U-builder software should be used under the direction of a design professional with sufficient structural engineering knowledge and experience to be able to:

- Evaluate whether the U-Builder Software is applicable to the project, and
- Understand and determine the appropriate values for all input parameters of the U-Builder software.

This letter certifies that the Unirac SM SOLARMOUNT Rails Flush, when installed according to the U-Builder engineering report and the manufacture specifications, is in compliance with the above codes and loading criteria

This certification excludes evaluation of the following components:

- 1) The structure to support the loads imposed on the building by the array; including, but not limited to: strength and deflection of structural framing members, fastening and/or strength of roofing materials, and/or the effects of snow accumulation on the structure.
- 2) The attachment of the SM SOLARMOUNT Rails to the existing structure.
- 3) The capacity of the solar module frame to resist the loads.

This requires additional knowledge of the building and is outside the scope of the certification of this racking system.

If you have any questions on the above, do not hesitate to call.

Prepared by:

PZSE, Inc. – Structural Engineers Roseville, CA

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY PAUL K. ZACHER, PE ON 01/20/2021 USING A SHA-1 AUTHENTICATION CODE

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DIGITAL SIGNATURE



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