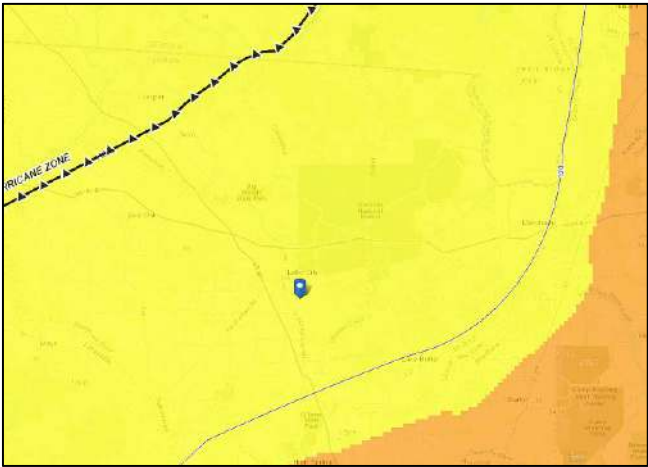




2 LOCATION MAP / WIND ZONES
N.T.S.

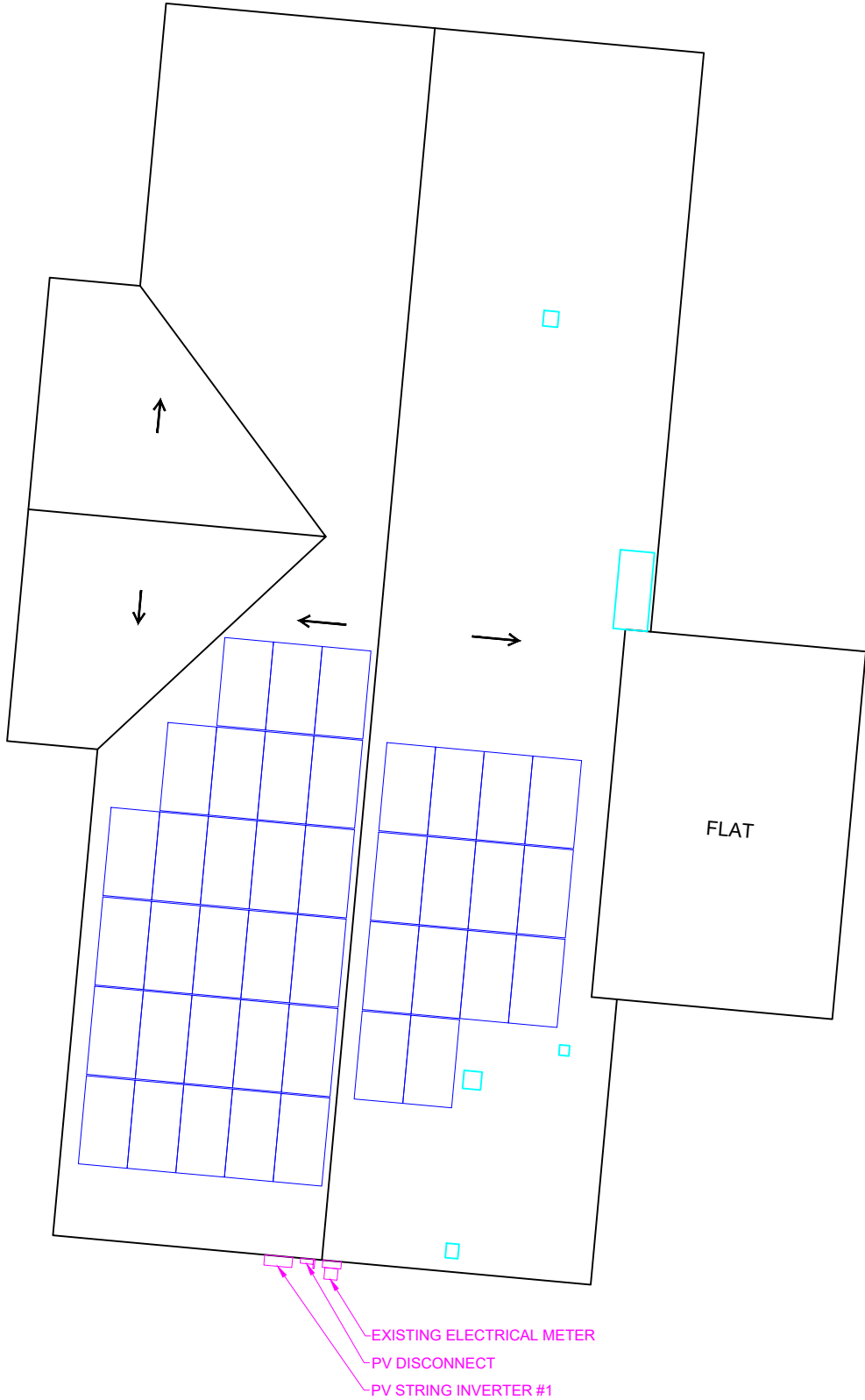


3 IRRADIANCE MAP
N.T.S.



4 3D RENDERING
N.T.S.

"PROPERTY SIDE FACING STREET"



1 ROOF PLAN VIEW / BOS LOCATION
N.T.S.

PROJECT DESCRIPTION

SYSTEM CAPACITY: 13.94 KW DC / 11.4 KW AC
PV PANELS: (41) SIL-340 NL (60 CELLS) BY SILFAB
OPTIMIZERS: (41) P340 BY SOLAREEDGE
INVERTER: (1) SE11400H RGM BY SOLAREEDGE
RACKING SYSTEM: CROSSRAIL SYSTEM 44-XL BY K-2

PROJECT INFORMATION

PROJECT LATITUDE	30.14536	MIN AMBIENT TEMP	1 ° C
PROJECT LONGITUDE	-82.60685	MAX AMBIENT TEMP	35 ° C
AHJ	COLUMBIA COUNTY	WIND EXPOSURE	C
		MAX WIND SPEED	118 MPH

DRAWINGS INDEX

C-1	COVER SHEET
C-2	SAFETY PLANS
E-1	ONE LINE RISER DIAGRAM
E-2	SAFETY LABELS
S-1	STRUCTURAL PLAN
S-2	RACKING PLAN
D-1	PV MODULES DATA SHEET
D-2	SMART MONITORING DATA SHEET
D-3	INVERTER DATA SHEET

GENERAL NOTES

PER FL. STATUTE 377.705 (REVISED 7/1/2017), I RAFAEL A. GONZALEZ SOTO, P.E. 83104 AN ENGINEER LICENSED PURSUANT TO CHAPTER 471, CERTIFY THAT THE PV ELECTRICAL SYSTEM AND ELECTRICAL COMPONENTS ARE DESIGNED AND APPROVED USING THE STANDARDS CONTAINED IN THE MOST RECENT VERSION OF THE FLORIDA BUILDING CODE.

APPLICABLE CODES: 2020 FLORIDA BUILDING CODE 7TH EDITION, ASCE 7-16 MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES, NEW ELECTRICAL CODE, NFPA 70 AND NEC 2017.

ALL WIND DESIGN CRITERIA AND PARAMETERS ARE FOR HIP AND GABLE RESIDENTIAL ROOFS, CONSIDERING FROM A 7° TO A MAXIMUM 27° (2/12 TO A MAXIMUM 6/12 PITCH ROOF IN SCHEDULE. ALL RESIDENTIAL ROOFS SHALL NOT EXCEED 30'-0" MEAN ROOF HEIGHT. ROOF SEALANTS SHALL CONFORM TO ASTM C920 AND ASTM 6511, AND IT IS RESPONSIBILITY OF THE CONTRACTOR TO PILOT FILL ALL HOLES.

CONTRACTOR SHALL ENSURE ALL ROOF PENETRATIONS TO BE INSTALLED AND SEALED PER 2020 FLORIDA BUILDING CODE 7TH EDITION OR LOCAL GOVERNING CODE.

ALL WIRING METHODS AND INSTALLATION PRACTICES SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE (NEC) 2017, LOCAL STATE CODES, AND OTHER APPLICABLE LOCAL CODES. MEANS SHALL BE PROVIDED TO DISCONNECT ALL CURRENT CARRYING CONDUCTORS OF THE PHOTOVOLTAIC POWER SOURCE FROM ALL OTHER CONDUCTORS IN THE BUILDING. CONNECTORS TO BE TORQUED PER DEVICE LISTING, OR MANUFACTURERS RECOMMENDATIONS. NON-CURRENT CARRYING METAL PARTS SHALL BE CHECKED FOR PROPER GROUNDING.

REQUIRED SAFETY SIGNS AND LABELS SHALL BE PERMANENTLY ATTACHED BY ADHESIVE, OR OTHER MECHANICAL MEANS, LABELS SHALL COMPLY WITH ARTICLE 690 VI OF THE NEC 2017 OR OTHER APPLICABLE STATE AND LOCAL CODES. SEE LABELS AND MARKING PAGE FOR MORE INFORMATION.

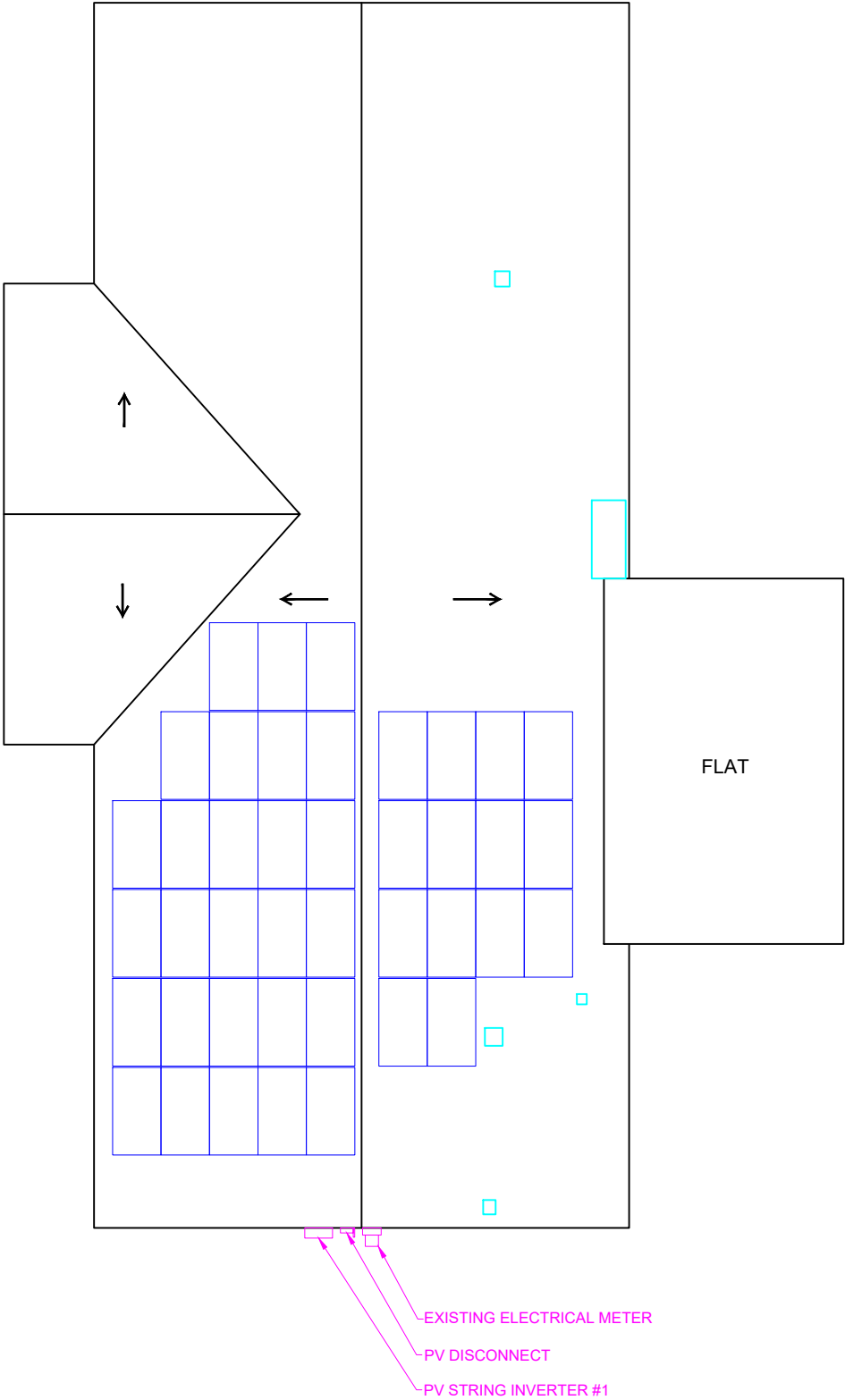
RACKING ROOF MOUNT SYSTEM SHALL BE INSTALLED FOLLOWING MANUFACTURERS INSTRUCTION SPEC'S, INCLUDING ALL GROUNDING WEEB CLIPS, GROUND LUGS, AND RAIL SPLICE KITS FOR ELECTRICAL CONTINUITY.

MECAWIND TOOL IS BASED ON THE C&C WIND LOADS FOR ENCLOSED BUILDINGS. DESIGN WIND PRESSURES ARE CALCULATED USING ASCE 7-16 EQUATION 30.6-1. ALL NOTES IN FIGURES ASCE 7-16 30.4-1 AND 30.4-2(A,B AND /67C) HAVE BEEN INCORPORATED. MEAN ROOF HEIGHT MUST BE LESS THAN 60 FEET.

DOCUMENT CONTROL				DATE		CAD	QC	ENGINEER CONTACT INFORMATION				ENGINEERING STAMP		CONTRACTOR CONTACT INFORMATION		CONTRACTOR LOGO		CUSTOMER:		SHEET NAME:	
ISSUED FOR PERMIT				03-18-2021		DP	JG	ENGIPARTNERS LLC				Digitally signed by Rafael A Gonzalez Soto		TITAN SOLAR POWER FL		TITAN SOLAR POWER		MOSES TOWN		COVER SHEET	
REV DESCRIPTION				DATE		CAD	QC	C.A. 32661 255 GIRALDA AVE CORAL GABLES, FL 33134 DESIGN@ENGIPARTNERS.COM 833 - 888 - 3644				Rafael A. Gonzalez Soto P.E. 83104 FLORIDA PROFESSIONAL ENGINEER		12221 N US HIGHWAY 301 THONOTASASSA, FL 33592 (813) 982 -9001 #EC13008093				205 SE JONATHAN WAY LAKE CITY FL 32025			
																		PARCEL NUMBER:		PROJECT ID:	
																		15-4S-17-08360-184		TSP68549	
																				ENGINEER OF RECORD:	
																				ENG. RAFAEL A. GONZALEZ SOTO, PE	
																				DATE:	
																				03-16-2021	
																				SHEET TITLE:	
																				C-1	
																				SHEETS:	
																				1 OF 9	



"PROPERTY SIDE FACING STREET"



LOCATION OF NEAREST URGENT CARE FACILITY

NAME:

ADDRESS:

PHONE NUMBER:

NOTES:

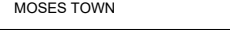
1. INSTALLERS SHALL DRAW IN DESIGNATED SAFETY AREA AROUND HOME

2. INSTALLERS SHALL UPDATE NAME ADDRESS AND PHONE NUMBER OF NEAREST URGENT CAR FACILITY RELATIVE TO THE SITE BEFORE STARTING WORK

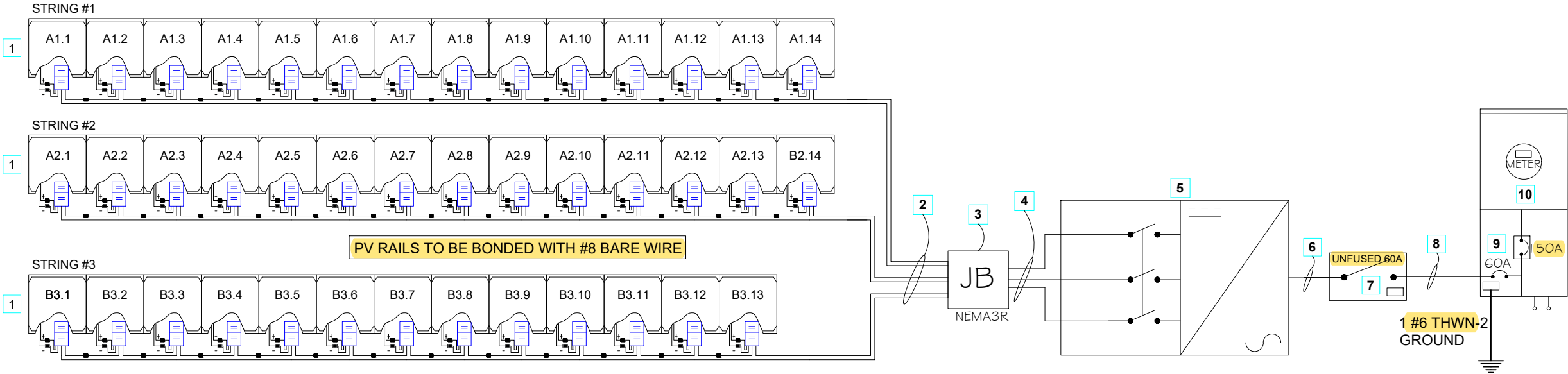
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SAFETY PLAN

N.T.S.

DOCUMENT CONTROL				DATE	CAD	QC	ENGINEER CONTACT INFORMATION				ENGINEERING STAMP				CONTRACTOR CONTACT INFORMATION				CONTRACTOR LOGO				CUSTOMER:				SHEET NAME:																				
ISSUED FOR PERMIT				03-18-2021	DP	JG	ENGIPARTNERS LLC C.A. 32661 255 GIRALDA AVE CORAL GABLES, FL 33134 DESIGN@ENGIPARTNERS.COM 833 - 888 - 3644				 Digitally signed by Rafael A Gonzalez Soto Date: 2021.03.22 07:40:34 -04'00				TITAN SOLAR POWER FL 12221 N US HIGHWAY 301 THONOTASASSA, FL 33592 (813) 982 -9001 #EC13008093								MOSES TOWN				SAFETY PLAN																				
REV				DESCRIPTION																			DATE								CAD				QC				PROJECT ADDRESS:								
																																							205 SE JONATHAN WAY LAKE CITY FL 32025								
																																							PARCEL NUMBER:				15-4S-17-08360-184				
																																											PROJECT ID:				ENGINEER OF RECORD:
																																TSP68549				ENG. RAFAEL A. GONZALEZ SOTO, PE				C-2							
																																				DATE:				SHEETS:							
																																				03-16-2021				2 OF 9							

	WIRE SIZES, QUANTITY & TYPE			RACEWAY SIZE, TYPE, LOCATION & INFO.			WIRE AMPACITY CALCULATIONS					ADDITIONAL INFORMATION					
WIRE TAG	CONDUCTOR QTY. SIZE & TYPE	NEUTRAL QTY. SIZE & TYPE	GROUND QTY. SIZE & TYPE	RACEWAY SIZE & TYPE	RACEWAY LOCATION	RACEWAY HEIGHT ABOVE ROOF	OUTPUT CURRENT	125% OF OUTPUT CURRRENT	MIN OCPD	WIRE DE-RATED CALCULATION				DIST.	VOLTAGE	VOLTAGE DROP %	CONDUIT FILL %
										WIRE RATING	AMBIENT TEMP	# OF COND.	FINAL AMPACITY				
DC (BEFORE JB)	(6) #10 AWG PV WIRE	N/A	(1) #8 AWG BARE COPPER	NOT APPLICABLE	UNDER ARRAY	1/2" TO 3-1/2"	15A	18.8A	20A	40A X 0.76 X 1 = 30.4 A				10 FT.	350V	0.11%	6.4%
DC (AFTER JB)	(6) #10 AWG THWN-2	N/A	(1) #8 AWG THWN-2	3/4" EMT CONDUIT	ABOVE ROOF	1/2" TO 3-1/2"	15A	18.8A	20A	40A X 0.76 X 0.8 = 24.3 A				20 FT.	350V	0.21%	8.1%
AC (INVERTER TO METER)	(2) #6 AWG THWN-2	(1)#6AWG THWN-2	(1) #8 AWG THWN-2	3/4" EMT CONDUIT	EXTERIOR WALL	"N/A"	47.5A	59.375A	60A	75A X 0.76 X 1 = 57.0 A				5 FT.	240V	0.1%	7.7%



NEW UNDERGROUND SERVICE
240V/120V 225A BUS BAR
3 #3/0 THWN-2

INVERTER TOTAL OUTPUT: 47.5A
SAFETY RATING (125%): 59.375A
TOTAL PV SYSTEM OCPD: 60A

MAIN BREAKER RATING: 200A
BUS BAR RATING: 225A
120% BACKFEED RATING: 70A

1 ONE LINE RISER DIAGRAM

N.T.S.

LEGEND:

1	(41) SIL-340 NL (60 CELLS) BY SILFAB REFER TO D-1 SHEET	2	6 #10 PV WIRE 1 #8 BARE WIRE GROUND 3/4" EMT CONDUIT	3	NEMA3R JUNCTION BOX
4	6 #10 THWN-2 1 #8 THWN-2 GROUND 3/4" EMT CONDUIT	5	SE11400H-RGM BY SOLAREEDGE REFER TO D-3 SHEET	6	2 #6 L1,L2 THWN-2 1 #6 THWN-2 NEUTRAL 1 #8 THWN-2 GROUND 3/4" EMT CONDUIT
7	PV SYSTEM DISCONNECT	8	2 #6 L1,L2 THWN-2 1 #6 THWN-2 NEUTRAL 1 #8 THWN-2 GROUND 3/4" EMT CONDUIT	9	PV INTERCONNECTION POINT
10	NEW ELECTRICAL SERVICE	11	NOT USED	12	NOT USED

DOCUMENT CONTROL				DATE	CAD	QC	ENGINEER CONTACT INFORMATION		ENGINEERING STAMP		CONTRACTOR CONTACT INFORMATION		CONTRACTOR LOGO 	CUSTOMER: MOSES TOWN		SHEET NAME: ONE LINE RISER DIAGRAM		
ISSUED FOR PERMIT				03-18-2021	DP	JG	ENGIPARTNERS LLC C.A. 32661 255 GIRALDA AVE CORAL GABLES, FL 33134 DESIGN@ENGIPARTNERS.COM 833 - 888 - 3644		 Digitally signed by Rafael A Gonzalez Soto Date: 2021.03.22 07:40:42 -04'00	TITAN SOLAR POWER FL 12221 N US HIGHWAY 301 THONOTASASSA, FL 33592 (813) 982 - 9001 #EC13008093		PROJECT ADDRESS: 205 SE JONATHAN WAY LAKE CITY FL 32025						
REV	DESCRIPTION			DATE	CAD	QC						PROJECT ID: TSP68549		ENGINEER OF RECORD: ENG. RAFAEL A. GONZALEZ SOTO, PE		SHEET TITLE: E-1		
												PARCEL NUMBER: 15-4S-17-08360-184		DATE: 03-16-2021		SHEETS: 3 OF 9		



WARNING

ELECTRICAL SHOCK HAZARD

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

LABEL LOCATION:
AC DISCONNECT,
POINT OF INTERCONNECTION
PER CODE: NEC 690.13 (B)



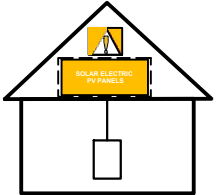
WARNING

TURN OFF PHOTVOLTAIC
AC DISCONNECT PRIOR TO
WORKING INSIDE PANEL

LABEL LOCATION:
AC DISCONNECT, MAIN PANEL
PER CODE: NEC 110.27 (C)
OSHA 1910.145(f)(7)

SOLAR PV SYSTEM EQUIPPED
WITH RAPID SHUTDOWN

TURN RAPID SHUTDOWN
SWITCH TO THE "OFF"
POSITION, TO
SHUTDOWN CONDUCTORS
OUTSIDE THE ARRAY.
CONDUCTORS WITHIN
ARRAY REMAIN
ENERGIZED IN SUNLIGHT



LABEL LOCATION:
AC DISCONNECT, MAIN PANEL
PER CODE: NEC 690.56(C)(3)

PHOTOVOLTAIC
SYSTEM EQUIPPED
WITH RAPID SYSTEM
SHUTDOWN

LABEL LOCATION:
AC DISCONNECT
POINT OF INTERCONNECTION
PER CODE: NEC 690.56(C)

INVERTER #1

NOMINAL OPERATING AC VOLTAGE

240 V

NOMINAL OPERATING AC FREQUENCY

60 HZ

MAXIMUM AC POWER

11.4KW

MAXIMUM AC CURRENT

47.5 AMPS

MAX OVERCURRENT DEVICE RATING
FOR AC MODULE PROTECTION

N/A

LABEL LOCATION:
INVERTER
PER CODE: NEC 690.52

MAXIMUM VOLTAGE

480 VDC

MAXIMUM CIRCUIT CURRENT

30.5 A

MAX RATED OUTPUT CURRENT OF
THE CHARGE CONTROLLER OR DC-TO-DC
CONVERTER
(IF INSTALLED)

15 A

LABEL LOCATION:
INVERTER
PER CODE: NEC 690.53

PHOTOVOLTAIC AC DISCONNECT

RATED AC OUTPUT CURRENT:

47.5 A

NOMINAL OPERATING AC VOLTAGE:

240V

LABEL LOCATION:
AC DISCONNECT
PER CODE: NEC 690.54

MAIN PHOTOVOLTAIC
SYSTEM DISCONNECT

LABEL LOCATION:
AC DISCONNECT
PER CODE: NEC 690.13 (B)

WARNING: PHOTOVOLTAIC
POWER SOURCE

LABEL LOCATION:
MAIN SERVICES DISCONNECT, DC CONDUIT
PER CODE: NEC 690.31 (G) (3)



WARNING

DUAL POWER SOURCE
SECOND SOURCE IS PHOTOVOLTAIC SYSTEM

LABEL LOCATION:
POINT OF
INTERCONNECTION
PER CODE: NEC 705.12 (B)(3)



WARNING

POWER SOURCE OUTPUT CONNECTION. DO NOT
RELOCATE THIS OVERCURRENT DEVICE

LABEL LOCATION:
POINT OF
INTERCONNECTION
PER CODE: NEC
705.12(B)(2)(3)(b)



CAUTION

PHOTOVOLTAIC SYSTEM CIRCUIT IS BACKFED

LABEL LOCATION:
MAIN SERVICE PANEL
PER CODE: NEC 690.45(B)(5)

DO NOT DISCONNECT
UNDER LOAD

LABEL LOCATION:
POINT OF
INTERCONNECTION
PER CODE:
NEC 690.33(E)(2) & NEC
690.15 (C)

CAUTION: SOLAR ELECTRIC
SYSTEM CONNECTED

LABEL LOCATION: POINT OF INTERCONNECTION
PER CODE: NEC 690.15, NEC 690.13(B)

1

PV SAFETY LABELS DATA

N.T.S.

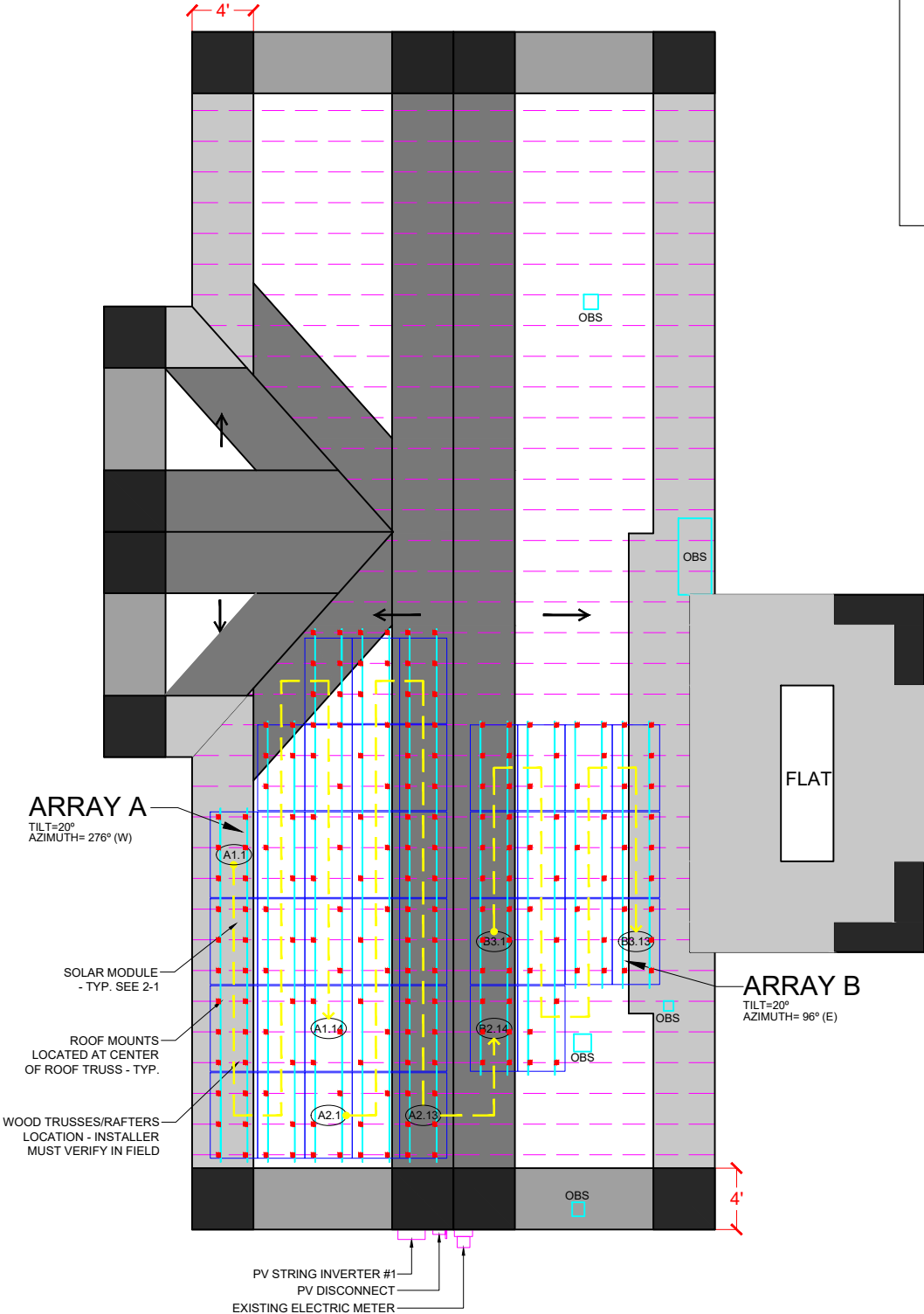
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ROOF'S GENERAL NOTES:

- 1- CONTRACTOR/INSTALLER TO VERIFY ROOF CONDITIONS FOR PROPER INSTALLATION OF THE PV SYSTEM.
2- CONTRACTOR/INSTALLER TO NOTIFY THE OWNER IMMEDIATELY OF ANY ROOF DEFICIENCIES AND/OR REPAIR REQUIRED TO INSTALL THE PV SYSTEM.
3- EOR DOES NOT ASSUME ANY RESPONSIBILITY FOR THE INSTALLATION OF ANY PV SYSTEM ON DEFICIENT ROOFS.
4-CONTRACTOR/INSTALLER ASSUMES ALL RESPONSIBILITY TO INSTALL AS PER MANUFACTURER STANDARDS.

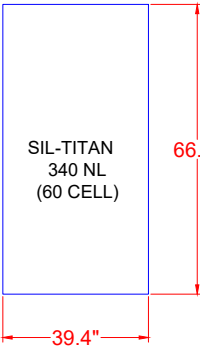


"PROPERTY SIDE FACING STREET"



LEGEND & SYMBOLS	
OBS	ROOF OBSTRUCTIONS
XX.X	ARRAY # MODULE # STRING #
[Box]	PV MODULES
---	TRUSSES OR RAFTERS
—■—■—	ROOF MOUNTS & RAIL
→	ROOF SLOPE

SOLAR MODULE



UL 1703 CERTIFIED
PORTRAIT MAX. SURFACE LOAD: 119 psf
LANDSCAPE MAX. SURFACE LOAD: 50.13 psf
APPLIED WIND LOAD : 49.07 psf

NOTES:
-INSTALL MID CLAMPS BETWEEN MODULES AND ENDS CLAMPS AT THE END OF EACH ROW OF MODULES.
-ALUMINUM RAILS SHOULD ALWAYS BE SUPPORTED BY MORE THAN ONE FOOTING ON BOTH SIDES OF THE SPLICE.

WEIGHTED AVERAGE

WORST CASE MODULE:

ZONE 1: 0%
ZONE 2r: 100%

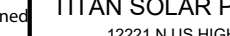
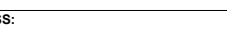
$49.07(1.0) + 33.64(0.0) = 49.07\text{psf}$

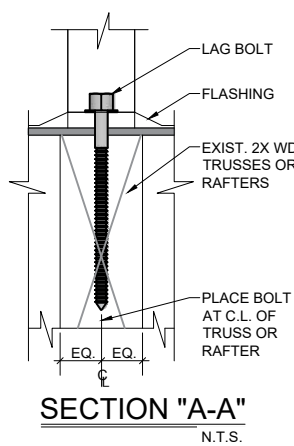
ULTIMATE WIND SPEED	175	mph
NOMINAL WIND SPEED	118	mph
RISK CATEGORY	II	
EXPOSURE CATEGORY	C	
ROOF SLOPE (°)	20	
ROOF TYPE	GABLED	
PRESSURE ZONE:	1&2	
MEAN ROOF HEIGHT:	12.93	
PERIMETER WIDTH:	4.0	
K _D	0.85	
K _{ZT}	1.0	
K _H	0.85	
VELOCITY PRESSURE (q) = 0.60*0.00256* K _H K _{ZT} K _D V ²		
VELOCITY PRESSURE (ASD)	15.43	
EXTERNAL PRESSURE COEFFICIENT Z1	0.7	-2.0
EXTERNAL PRESSURE COEFFICIENT Z2e	0.7	-2.0
EXTERNAL PRESSURE COEFFICIENT Z2n	0.7	-3.0
EXTERNAL PRESSURE COEFFICIENT Z2r	0.7	-3.0
EXTERNAL PRESSURE COEFFICIENT Z3e	0.7	-3.0
EXTERNAL PRESSURE COEFFICIENT Z3r	0.7	-3.6
INTERNAL PRESSURE COEFFICIENT	0.18	

ZONES	PRESSURES (PSF)	MAX. SPAN (FT)	MAX. CANTILEVER (IN)
1	-33.64	4'	16"
2e	-33.64	2'	8"
2n	-49.07	2'	8"
2r	-49.07	2'	8"
3e	-49.07	2'	8"
3r	-58.33	2'	8"
TOTAL ROOF AREA		3136.06 sq.-ft	
TOTAL MODULES:		41	
TOTAL PHOTOVOLTAIC AREA:		750.3 sq.-ft	
WIND LOAD (PSF):		49.07	
TOTAL WIND LOAD (LBS):		-36,817.22	
TOTAL ROOF MOUNTS:		185	
TENSION FORCE PER MOUNT (LBS):		199.01	



1 STRUCTURAL ROOF PLAN & PV MODULES LAYOUT
N.T.S.

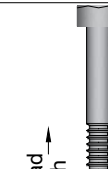
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ISSUED FOR PERMIT				03-18-2021	DP	JG	ENGIPARTNERS LLC C.A. 32661 255 GIRALDA AVE CORAL GABLES, FL 33134 DESIGN@ENGIPARTNERS.COM 833 - 888 - 3644			Digitally signed by Rafael A Gonzalez Soto Date: 2021.03.22 07:40:58 -04'00'	TITAN SOLAR POWER FL 12221 N US HIGHWAY 301 THONOTASASSA, FL 33592 (813) 982 -9001 #EC13008093		MOSES TOWN	STRUCTURAL PLAN				
REV				DATE	CAD	QC							PROJECT ADDRESS:					
													205 SE JONATHAN WAY LAKE CITY FL 32025					
											PARCEL NUMBER:	15-4S-17-08360-184	PROJECT ID:	TSP68549	ENGINEER OF RECORD:	ENG. RAFAEL A. GONZALEZ SOTO, PE	SHEET TITLE:	S-1
															DATE:	03-16-2021	SHEETS:	5 OF 9

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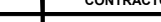
SPAN TABLE FOR RT MINI ANCHORAGE SYSTEM															
Exposure Category	Roof Angle	Roof Area		Basic Wind Speed, V (mph)											
		5	10	15	10	115	130	140	150	160	170	180			
PORTLAND 8-BELLS	0 to 6 Degrees	1	96	96	96	87	79	72	61	52	45	39	34	30	
		2	88	88	88	83	75	67	57	47	41	35	30	27	
		3	80	80	80	76	68	60	51	42	36	31	26	23	
	7 to 27 Degrees	1	96	87	78	73	64	59	50	43	37	32	28	25	
		2	83	86	51	48	42	39	33	28	24	21	19	17	
		3	63	68	40	38	34	31	27	23	20	17	15	14	
	28 to 45 Degrees	1	96	88	79	74	65	60	51	44	38	33	29	26	
		2	59	80	73	69	61	56	48	42	36	31	28	25	
		3	36	80	46	44	38	35	30	26	23	19	17	15	
PORTLAND 7-BELLS	0 to 6 Degrees	1	96	96	87	79	72	61	52	45	39	34	30	27	
		2	76	68	61	55	50	46	38	33	28	24	21	19	
		3	63	67	45	39	35	32	27	23	20	17	15	14	
	7 to 27 Degrees	1	96	76	68	62	56	52	44	37	32	28	25	22	
		2	69	69	54	49	43	39	32	28	24	21	19	17	
		3	49	40	30	33	30	28	23	17	15	13	12	11	
	28 to 45 Degrees	1	96	76	71	65	58	54	45	40	35	31	27	24	
		2	70	78	64	58	53	49	42	36	32	27	24	21	
		3	49	64	40	36	33	31	25	22	19	17	15	13	
LANDWAVE	0 to 6 Degrees	1	96	96	96	96	96	96	96	88	76	67	59	52	
		2	56	96	96	56	96	96	75	64	55	48	41	35	
		3	36	96	96	36	96	96	59	50	43	36	29	25	
	7 to 27 Degrees	1	96	96	96	96	96	96	96	73	63	53	48	42	
		2	96	96	87	79	72	66	58	48	42	36	32	28	
		3	67	79	71	65	59	55	45	39	34	30	27	24	
	28 to 45 Degrees	1	56	96	96	56	96	96	75	68	60	55	47	41	
		2	36	96	96	36	96	96	60	53	46	41	34	29	
		3	25	86	78	24	65	59	51	46	38	33	30	26	

[illegible]

STAINLESS STEEL Lag screw specifications		
	Specific gravity	$\frac{5}{16}$ " shaft, * per inch thread depth
Douglas Fir, Larch	0.50	266
Douglas Fir, South	0.46	235
Engelman Spruce, Lodgepole Pine (MSR 1650 f & higher)	0.46	235
Hem, Fir, Redwood (close grain)	0.43	212
Hem, Fir (North)	0.46	235
Southern Pine	0.55	307
Spruce, Pine, Fir	0.42	205
Spruce, Pine, Fir (E of 2 million psi and higher grades of MSR and MEL)	0.50	266



SHINGLE ROOF MOUNT DETAIL & DATA

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ISSUED FOR PERMIT				03-18-2021	DP	JG	ENGPARTNERS LLC				TITAN SOLAR POWER FL				MOSES TOWN		RACKING PLAN					
REV	DESCRIPTION			DATE	CAD	QC	C.A. 32661 255 GIRALDA AVE CORAL GABLES, FL 33134				12221 N US HIGHWAY 301				PROJECT ADDRESS:							
							DESIGN@ENGPARTNERS.COM				THONOTASASSA, FL 33592				205 SE JONATHAN WAY LAKE CITY FL 32025							
							833 - 888 - 3644				(813) 982 - 9001				PARCEL NUMBER:		PROJECT ID:		ENGINEER OF RECORD:		SHEET TITLE:	
											#EC13008093				15-4S-17-08360-184		TSP68549		ENG. RAFAEL A. GONZALEZ SOTO, PE		S-2	
															DATE:		SHEETS:					
															03-16-2021		6 OF 9					



Silfab Solar Inc.
240 Courtneypark Drive East
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Fax: +1-905-696-0267
Web: www.silfabsolar.com
Email: info@silfabsolar.com

February 10th, 2021

Subject: Update to Silfab's UL 1703 Mechanical Load Test Ratings

To whom it may concern,

Thank you for your choice of employing Silfab PV Modules in your PV rooftop projects, some of which can be located in areas with above normal windload design requirements.

Silfab Solar Inc. has made recent targeted efforts to extend the mechanical test load ratings under the UL 1703 PV module standard for Silfab's residential PV module product offerings with regards to extreme uplift design load needs, namely the PV modules identified as follows: SIL-xxxNL, SIL-xxxHL, SIL-xxxBK, and SIL-xxxNX.

This letter serves to clarify the achieved maximum test load ratings, and the associated design load ratings, according to the following modifications to the design of the module's mounting locations under a 2-rail configuration which must be followed in order to ensure compliance:

- (i) **SIL-xxxNL and SIL-xxxHL:** the mounting/clamping locations must be made along the long edge of the module frame and be spaced apart 1100mm +/- 25mm in a symmetric/centered fashion.
- (ii) **SIL-xxxBK and SIL-xxxNX:** the mounting/clamping locations must be made along the long edge of the module frame and be spaced apart 1200mm +/- 25mm in a symmetric/centered fashion.

As long as the design and installation of the aforementioned PV module types follows the guidelines above, the maximum test load ratings in both downward and upward orientations have been confirmed as 119psf (5700Pa) which corresponds to a maximum design load rating of 79.3psf (3800Pa).

Sincerely,

Itai Suez, PhD – Vice President of Product Development
Silfab Solar Inc.

A0001 Rev.D

Sep. 3, 2019

Electrical Specifications		SIL-340 NL mono PERC	
Test Conditions		STC	NOCT
Module Power (P _{max})	W _p	340	241
Maximum power voltage (V _{pmax})	V	33.7	30.4
Maximum power current (I _{pmax})	A	10.1	7.9
Open circuit voltage (V _{oc})	V	40.9	37.1
Short circuit current (I _{sc})	A	10.5	8.3
Module efficiency	%	20.0	17.7
Maximum system voltage (V _{DC})	V	1000	
Series fuse rating	A	20	
Power Tolerance	W _p	+/-3%	
Measurement conditions: STC 1000 W/m ² • AM 1.5 • Temperature 25°C • NOCT 800 W/m ² • AM 1.5 • Measurement uncertainty ± 3% • Sun simulator calibration reference module from Fraunhofer Institute. Electrical characteristics may vary by ±5% and power by ±1.2%.			
Temperature Ratings		SIL-340 NL mono PERC	
Temperature Coefficient I _{sc}		0.054 %/°C	
Temperature Coefficient V _{oc}		-0.28 %/°C	
Temperature Coefficient P _{max}		-0.36 %/°C	
NOCT (+ 2°C)		46 °C	
Operating temperature		-40/+85 °C	
Mechanical Properties and Components		SIL-340 NL mono PERC	
Module weight		41 ±0.4 lbs	
Dimensions (H x L x D)		66.9 in x 39.4 in x 1.5 in	
Maximum surface load (wind/snow)*		83.5/112.8 lb/ft ²	
Hail impact resistance		ø 1 in at 51.6 mph	
Cells		60 - Si mono PERC - 5 busbar, 6.25 x 6.25 inch	
Glass		0.126 in high transmittance, tempered, DSM anti-reflective coating	
Cables and connectors (refer to installation manual)		47.2 in, ø 0.22 in, MC4 from Staubli	
Backsheet		High durability, superior hydrolysis and UV resistance, multi-layer dielectric film, fluorine-free PV backsheet	
Frame		Anodized Aluminum (Black)	
Bypass diodes		3 diodes-30SQ045T (45V max DC blocking voltage, 30A max forward rectified current)	
Junction Box		UL 3730 Certified, IEC 62790 Certified, IP67 rated	
Warranties		SIL-340 NL mono PERC	
Module product/workmanship warranty		25 years**	
Linear power performance guarantee		30 years	
		≥ 97.1% end 1 st year	≥ 91.6% end 12 th year ≥ 85.1% end 25 th year ≥ 82.6% end 30 th year
Certifications		SIL-340 NL mono PERC	
Product		ULC ORD C1703, UL1703, CEC Listed***, UL 61215-1/-1-1/-2, UL 61730-1/-2, IEC 61215-1/-1-1/-2***, IEC 61730-1/-2***, CSA C22.2 #61730-1/-2***, IEC 62716 Ammonia Corrosion, IEC61701:2011 Salt Mist Corrosion Certified, UL Fire Rating: Type 2	
Factory		ISO 9001:2015	

■ Modules Per Pallet: 26
■ Pallets Per Truck: 36
■ Modules Per Truck: 936

* ⚠ Warning: Read the Safety and Installation Manual for mounting specifications and before handling, installing and operating modules.

**12 year extendable to 25 years subject to registration and conditions outlined under "Warranty" at: www.silfabsolar.com.

***September 2020 expected completion date.

PAN files generated from 3rd party performance data are available for download at: www.silfabsolar.com/downloads

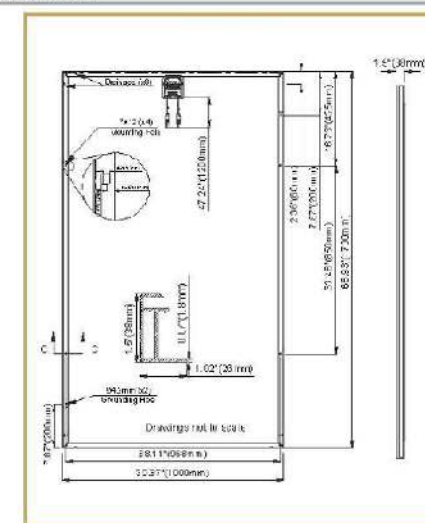


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ISSUED FOR PERMIT				03-18-2021		DP JG		ENGINEPARTNERS LLC		TITAN SOLAR POWER FL		MOSES TOWN		PV MODULES DATASHEET	
REV DESCRIPTION				DATE		CAD QC		C.A. 32661 255 GIRALDA AVE CORAL GABLES, FL 33134		12221 N US HIGHWAY 301 THONOTASASSA, FL 33592		PROJECT ADDRESS:		PROJECT ID:	
								DESIGN@ENGINEPARTNERS.COM		(813) 982-9001		205 SE JONATHAN WAY LAKE CITY FL 32025		TSP68549	
								833-888-3644		#EC13008093		PARCEL NUMBER:		15-4S-17-08360-184	
														ENGINEER OF RECORD:	
														ENG. RAFAEL A. GONZALEZ SOTO, PE	
														DATE:	
														03-16-2021	
														SHEET TITLE:	
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														SHEETS:	
														7 OF 9	

Power Optimizer

For North America

P320 / P340 / P370 / P400 / P401 / P405 / P485 / P505



POWER OPTIMIZER

PV power optimization at the module-level

- Specifically designed to work with SolarEdge inverters
- Up to 25% more energy
- Superior efficiency (99.5%)
- Mitigates all types of module mismatch losses, from manufacturing tolerance to partial shading
- Flexible system design for maximum space utilization
- Fast installation with a single bolt
- Next generation maintenance with module-level monitoring
- Meets NEC requirements for arc fault protection (AFCI) and Photovoltaic Rapid Shutdown System (PVRSS)
- Module-level voltage shutdown for installer and firefighter safety

solaredge.com



Power Optimizer

For North America

P320 / P340 / P370 / P400 / P401 / P405 / P485 / P505

Optimizer model (typical module compatibility)	P320 (for 60-cell modules)	P340 (for high- power 60-cell modules)	P370 (for higher- power 60 and 72- cell modules)	P400 (for 72 & 96-cell modules)	P401 (for high power 60 and 72 cell modules)	P405 (for high- voltage modules)	P485 (for high- voltage modules)	P505 (for higher current modules)		
INPUT										
Rated Input DC Power ⁽¹⁾	320	340	370	400		405	485	505	W	
Absolute Maximum Input Voltage (Voc at lowest temperature)	48		60	80	60	125 ⁽²⁾		83 ⁽²⁾	Vdc	
MPPT Operating Range	8 – 48		8 – 60	8 – 80	8 – 60	12.5 – 105		12.5 – 83	Vdc	
Maximum Short Circuit Current (Isc)	11			10.1	11.75	11		14	Adc	
Maximum DC Input Current	13.75			12.5	14.65	12.5		17.5	Adc	
Maximum Efficiency	99.5								%	
Weighted Efficiency	98.3							98.6	%	
Overvoltage Category	II									
OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING SOLAREGE INVERTER)										
Maximum Output Current	15								Adc	
Maximum Output Voltage	60					85				Vdc
OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM SOLAREGE INVERTER OR SOLAREGE INVERTER OFF)										
Safety Output Voltage per Power Optimizer	1 ± 0.1								Vdc	
STANDARD COMPLIANCE										
EMC	FCC Part15 Class B, IEC61000-6-2, IEC61000-6-3									
Safety	IEC62109-1 (class II safety), UL1741									
Material	UL94 V-0, UV Resistant									
RoHS	Yes									
INSTALLATION SPECIFICATIONS										
Maximum Allowed System Voltage	1000								Vdc	
Compatible inverters	All SolarEdge Single Phase and Three Phase inverters									
Dimensions (W x L x H)	129 x 153 x 27.5 / 5.1 x 6 x 1.1			129 x 153 x 33.5 / 5.1 x 6 x 1.3	129 x 153 x 29.5 / 5.1 x 6 x 1.16	129 x 159 x 49.5 / 5.1 x 6.3 x 1.9		129 x 162 x 59 / 5.1 x 6.4 x 2.3	mm / in	
Weight (including cables)	630 / 1.4			750 / 1.7	655 / 1.5	845 / 1.9		1064 / 2.3	gr / lb	
Input Connector	MC4 ⁽³⁾						Single or dual MC4 ⁽³⁾	MC4 ⁽³⁾		
Input Wire Length	0.16 / 0.52								m / ft	
Output Wire Type / Connector	Double Insulated / MC4									
Output Wire Length	0.9 / 2.95			1.2 / 3.9					m / ft	
Operating Temperature Range ⁽⁴⁾	-40 - +85 / -40 - +185								°C / °F	
Protection Rating	IP68 / NEMA6P									
Relative Humidity	0 - 100								%	

(1) Rated power of the module at STC will not exceed the optimizer "Rated Input DC Power". Modules with up to +5% power tolerance are allowed.
(2) NEC 2017 requires max input voltage be not more than 80V.
(3) For other connector types please contact SolarEdge.
(4) For dual version for parallel connection of two modules use P485-INMD4MRM. In the case of an odd number of PV modules in one string, installing one P485 dual version power optimizer connected to one PV module. When connecting a single module seal the unused input connectors with the supplied pair of seals.
(5) For ambient temperature above +85°C / +185°F power de-rating is applied. Refer to Power Optimizers Temperature De-Rating Technical Note for more details.

PV System Design Using a SolarEdge Inverter ⁽⁵⁾	Single Phase HD-Wave	Single phase	Three Phase for 208V grid	Three Phase for 277/480V grid	
Minimum String Length (Power Optimizers)	P320, P340, P370, P400, P401 P405, P485, P505	8	10	18	
		6	8	14	
Maximum String Length (Power Optimizers)		25	25	50 ⁽⁶⁾	
Maximum Power per String	5700 (6000 with SE7600-US - SE11400-US)	5250	6000 ⁽⁹⁾	12750 ⁽¹⁰⁾	W
Parallel Strings of Different Lengths or Orientations	Yes				

(5) For detailed string sizing information refer to: http://www.solaredge.com/sites/default/files/string_sizing_na.pdf
(6) It is not allowed to mix P405/P485/P505 with P320/P340/P370/P400/P401 in one string.
(7) A string with more than 30 optimizers does not meet NEC rapid shutdown requirements; safety voltage will be above the 30V requirement.
(8) For 208V grid, it is allowed to install up to 6,500W per string when the maximum power difference between each string is 1,000W.
(9) For 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.

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REV				DATE		CAD	QC	C.A. 32661 255 GIRALDA AVE CORAL GABLES, FL 33134						12221 N US HIGHWAY 301				205 SE JONATHAN WAY LAKE CITY FL 32025			
								DESIGN@ENGIPARTNERS.COM						THONOTASASSA, FL 33592				PARCEL NUMBER:			
								833 - 888 - 3644						(813) 982 - 9001				15-4S-17-08360-184			
														#EC13008093				PROJECT ADDRESS:		PROJECT ID:	
																		TSP68549		ENGINEER OF RECORD:	
																		ENG. RAFAEL A. GONZALEZ SOTO, PE		SHEET TITLE:	
																		DATE:		D-2	
																		03-16-2021		SHEETS:	
																				8 OF 9	

Single Phase Inverter with HD-Wave Technology for North America

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



INVERTERS

Optimized installation with HD-Wave technology

- Specifically designed to work with power optimizers
- 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
- UL1741 SA certified, for CPUC Rule 21 grid compliance
- Small, lightweight, and easy to install both outdoors or indoors
- 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							
OUTPUT								
Rated AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	VA
Maximum AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	VA
AC Output Voltage Min.-Nom.-Max. (211 - 240 - 254)	✓	✓	✓	✓	✓	✓	✓	Vac
AC Output Voltage Min.-Nom.-Max. (183 - 208 - 229)	-	✓	-	✓	-	-	✓	Vac
AC Frequency (Nominal)	59.3 - 60 - 60.5 ⁽¹⁾							Hz
Maximum Continuous Output Current @240V	12.5	16	21	25	32	42	47.5	A
Maximum Continuous Output Current @208V	-	16	-	24	-	-	48.5	A
Power Factor	1, Adjustable - 0.85 to 0.85							
GFDI Threshold	1							A
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes							
INPUT								
Maximum DC Power @240V	4650	5900	7750	9300	11800	15500	17650	W
Maximum DC Power @208V	-	5100	-	7750	-	-	15500	W
Transformer-less, Ungrounded	Yes							
Maximum Input Voltage	480							Vdc
Nominal DC Input Voltage	380				400			Vdc
Maximum Input Current @240V ⁽²⁾	8.5	10.5	13.5	16.5	20	27	30.5	Adc
Maximum Input Current @208V ⁽²⁾	-	9	-	13.5	-	-	27	Adc
Max. Input Short Circuit Current	45							Adc
Reverse-Polarity Protection	Yes							
Ground-Fault Isolation Detection	600ka Sensitivity							
Maximum Inverter Efficiency	99	99.2						%
CEC Weighted Efficiency	99						99 @ 240V 98.5 @ 208V	%
Nighttime Power Consumption	< 2.5							W

(1) For other regional settings please contact SolarEdge support.
(2) A higher current source may be used; the inverter will limit its input current to the values stated.

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																																DATE: 03-16-2021				SHEETS: 9 OF 9							