BUILDING CODES: 2017 NEC, AND 2018 NORTH CAROLINA RESIDENTIAL CODE

LANNING, MICHAEL PV SYSTEM 55 GAMACHE LN. LILLINGTON, NC, 27546 JURISDICTION: HARNETT COUNTY UTILITY: CENTRAL ELECTRIC MEMBERSHIP COOPERATIVE

GENERAL INFORMATION

12.240 kW-DC-STC SYSTEM SIZE:

10.000 kW-AC

18 DEGREES **ROOF PITCHED:**

INVERTER: (1) SOLAREDGE SE10000H-US W/ P340 OPTIMIZERS

MODULES: (36) SILFAB SIL-340 NL

(3)x12 MODULE SERIES STRINGS STRINGS:

ELECTRICAL SERVICE RATING: 200A PV SYSTEM OVERCURRENT RATING: 60A

PV SYSTEM DISCONNECT SWITCH: EATON DG222URB (60A / 2P)

ROOF TYPE:

ROOF FRAMING: MANUFACTURED/ENGINEERED TRUSS

RACKING: EVEREST

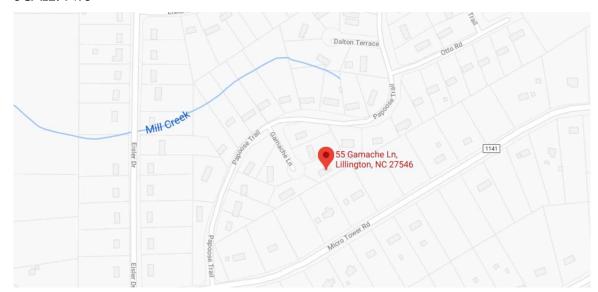
ATTACHMENT METHOD: MIN. 5/16" x 3 ½ LAG SCREWS EA. STANDOFF

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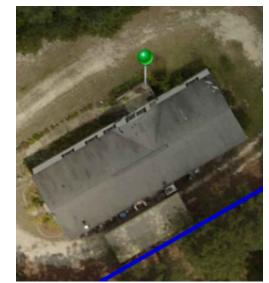
REQUIRED INFORMATION	SHEET NAME	SHEET NUMBER
SITE INFORMATION	COVER PAGE	PV 1
MODULE AND EQUIPMENT LAYOUT	SITE PLAN	PV2
LOCATION & QUANTITY OF PACKING & STANDOFFS	PV LAYOUT	PV 3
RACKING LOAD & UPLIFT CALCULATIONS	PV LAYOUT	PV 3
ROOF ATTACHMENT DETAILS	DETAILS	PV 4
ELECTRICAL 1 LINE DIAGRAM	ONE LINE	PV 5
ELECTRICAL 3 LINE DIAGRAM	THREE LINE	PV 6
OCP & WIRE SIZING CALCULATIONS	1 & 3 LINE	PV 5 & 6
ARRAY & INVERTER ELECTRICAL SPECIFICATIONS	1 & 3 LINE	PV 5 & 6
EQUIPMENT SPECIFICATIONS	1 & 3 LINE	PV 5 & 6
LABEL NOTES	LABELS	PV 7
PV EQUIPMENT LABELING DETAIL	LABELS	PV 7
DIRECTORY LABEL	PLACARD	PV-8
PV EQUIPMENT SPECIFICATIONS	EQUIPMENT SPEC.	PV 9 - 16
DATA SHEETS & ADDITIONAL INFORMATION	SUPPLEMENTAL MATERIAL	

VICINITY MAP

SCALE: NTS



AERIAL MAP SCALE: NTS



NOTES

EQUIPMENT LOCATION

- 1. ALL EQUIPMENT SHALL MEET MINIMUM SETBACKS AS REQUIRED BY NEC 110.26.
- 2. WIRING SYSTEMS INSTALLED IN DIRECT SUNLIGHT MUST BE RATED FOR EXPECTED OPERATING TEMPERATURE AS SPECIFIED BY NEC690.31(A),(C) AND NEC TABLES 310.15(B)(2)(A) AND 310.15(B)(3)(C).
- 3. JUNCTION AND PULL BOXES PERMITTED INSTALLED UNDER PV MODULES ACCORDING TO NEC 690.34.
- 4. ADDITIONAL AC DISCONNECT(S) SHALL BE PROVIDED WHERE THE INVERTER IS NOT WITHIN SIGHT OF THE AC SERVICING DISCONNECT.
- 5. ALL EQUIPMENT SHALL BE INSTALLED ACCESSIBLE TO QUALIFIED PERSONNEL ACCORDING TO NEC APPLICABLE CODES.
- 6. ALL COMPONENTS ARE LISTED FOR THEIR PURPOSE AND RATED FOR OUTDOOR USAGE WHEN APPROPRIATE.

WIRING & CONDUIT NOTES

- 1. ALL CONDUITS AND WIRE WILL BE LISTED AND APPROVED FOR THEIR PURPOSE. CONDUIT AND WIRE SPECIFICATIONS ARE BASED ON MINIMUM CODE REQUIREMENTS AND ARE NOT MEANT TO LIMIT UP-SIZING.
- 2. CONDUCTORS SIZED ACCORDING TO NEC 690.8, NEC 690.7.
- 3. DC WIRING LIMITED TO MODULE FOOTPRINT. MICRO INVERTER WIRING SYSTEMS SHALL BE LOCATED AND SECURED UNDER THE ARRAY WITH SUITABLE WIRING CLIPS.
- 4. AC CONDUCTORS COLORED OR MARKED AS FOLLOWS: PHASE A OR L1- BLACK, PHASE B OR L-2 RED, OR OTHER CONVENTION IF THREE PHASE, PHASE C OR L3-BLUE, YELLOW, ORANGE, OR OTHER CONVENTION NEUTRAL- WHITE OR GREY IN 4-WIRE DELTA CONNECTED SYSTEMS THE PHASE WITH THE HIGHER VOLTAGE TO BE MARKED ORANGE NEC 110.15.

GENERAL NOTES

- 1. MODULES ARE LISTED UNDER UL 1703 AND CONFORM TO THE STANDARDS.
- 2. INVERTERS ARE LISTED UNDER UL 1741 AND CONFORM TO THE STANDARDS.
- 3. DRAWINGS ARE DIAGRAMMATIC, INDICATING GENERAL ARRANGEMENT OF THE PV SYSTEM AND THE ACTUAL SITE CONDITION
- 4. WORKING CLEARANCES AROUND THE NEW PV ELECTRICAL EQUIPMENT WILL BE MAINTAINED IN ACCORDANCE WITH NEC 110.26.
- 5. ALL GROUND WIRING CONNECTED TO THE MAIN SERVICE GROUNDING IN MAIN SERVICE PANEL/SERVICE COMPONENT.
- 6. ALL CONDUCTORS SHALL BE 600V, 75° C STANDARD COPPER UNLESS OTHERWISE NOTED.
- 7. WHEN REQUIRED, A LADDER SHALL BE IN PLACE FOR INSPECTION IN COMPLIANCE WITH OSHA REGULATIONS.
- 8. THE SYSTEM WILL NOT BE INTERCONNECTED BY THE CONTRACTOR UNTIL APPROVAL FROM THE LOCAL JURISDICTION AND/OR THE UTILITY.
- 9. ROOF ACCESS POINT SHALL BE LOCATED IN AREAS THAT DO NOT REQUIRE THE PLACEMENT OF GROUND LADDERS OVER OPENINGS SUCH AS WINDOWS WHERE THE ACCESS POINT DOES NOT CONFLICT WITH OVERHEAD OBSTRUCTIONS SUCH AS TREES, WIRES OR SIGNS.
- 10. PV ARRAY COMBINER/JUNCTION BOX PROVIDES TRANSITION FROM ARRAY WIRING TO CONDUIT WIRING.



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LANNING, MICHAEL RESIDENCE 55 GAMACHE LN, LILLINGTON, NC, 27546 LAT:35.318159, LON:-79.003292 TSP-60522

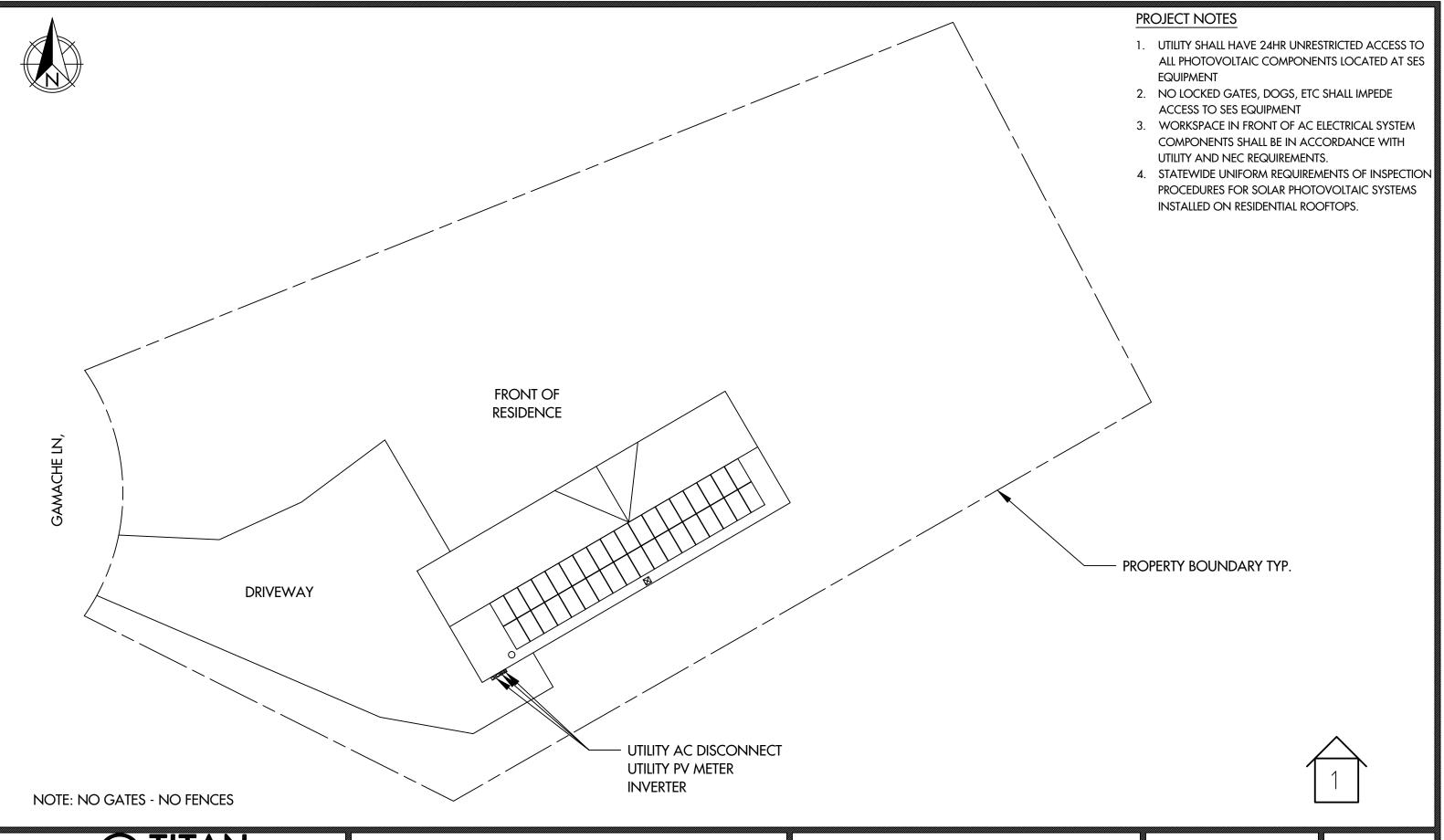
(36) SILFAB SIL-340 NL (1) SOLAREDGE SE10000H-US 12.240 kW DC SYSTEM SIZE 10.000 kW AC SYSTEM SIZE

DATE: 12/28/2020

REV:A

DRAWN BY: DH

COVER PAGE PV 1





10345 NATIONS FORD RD SUITE W, CHARLOTTE, NC 28273 SEPERMITTING@TITANSOLARPOWER.COM (877) 997-7652 LANNING, MICHAEL RESIDENCE 55 GAMACHE LN, LILLINGTON, NC, 27546 LAT:35.318159, LON:-79.003292 TSP-60522 (36) SILFAB SIL-340 NL
(1) SOLAREDGE SE10000H-US
12.240 kW DC SYSTEM SIZE
10.000 kW AC SYSTEM SIZE

SCALE:0.004515 DATE: 12/28/2020

REV:A DRAWN BY: DH SITE PLAN

 $\frac{ARRAY}{AR-01}$

QUANTITY: 36

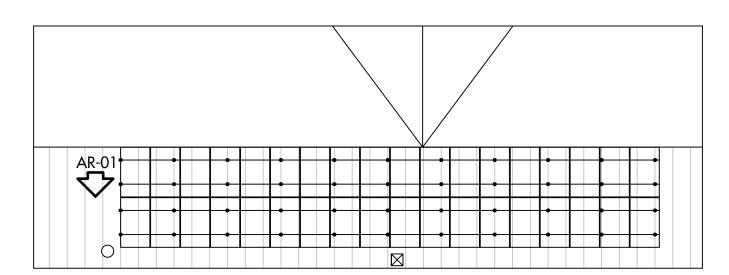
MOUNTING TYPE: FLUSH

ARRAY TILT: 18° AZIMUTH: 146°

ATTACHMENT SPACING: 6'

ROOF TYPE: COMP





NOTES

- ROOF VENTS, SKYLIGHTS, WILL NOT
 BE COVERED UPON PV INSTALLATION
- TOTAL ROOF AREA = 2042 SQ-FT
- TOTAL ARRAY AREA = 658.97 SQ-FT
- ARRAY COVERAGE = 32.27%

DRAWN BY: DH

MODULE & RACKING INFORMATION

MODULE: SILFAB SIL-340 NL MODULE WEIGHT: 42.99 LBS

MODULE DIMENSIONS: 66.9" x 39.4" x1.5" RACKING/RAIL: QUICKBOLT / EVEREST

ROOF & FRAMING INFORMATION

MATERIAL: COMP

23100.00 LBS.

RAFTER/TRUSS SIZE: 2" x 4" RAFTER/TRUSS SPACING: 2'

ARRAY INFORMATION:

ARRAY 01: 36 MODULES

UPLIFT CALCULATION:

PANEL GROUP AREA: = MODULE AREA: 18.30 SQ.FT * MODULE QTY. 36 = 658.97 SQ.FT

TOTAL UPLIFT: = PANEL GROUP AREA:658.97 SQ. FT. * WIND LOAD 30 PSF = TOTAL LOAD 19768.95 LBS.

POINT LOAD CALCULATION:

ARRAY WEIGHT: MODULE WEIGHT (42.99 +3.5) * MODULE QTY.36 = 1673.64 LBS / 44 MOUNTING POINTS = 38.04 LBS. PER MOUNTING POINT

PULLOUT STRENGTH CALCULATION:

CONNECTOR TYPE: 5/16" LAG SCREW (EMBED MIN. 2.5")

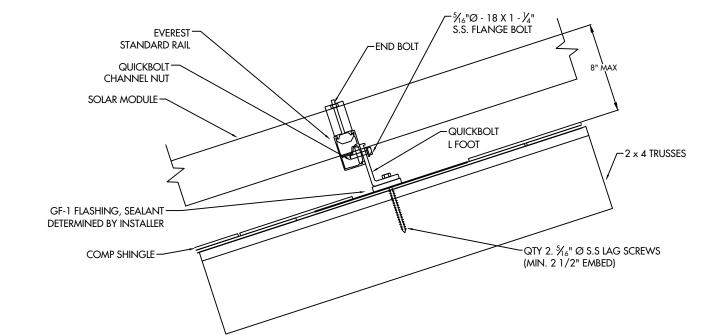
PULLOUT STRENGTH: = OF MOUNTING POINTS: 44 * 2.5 (EMBED DEPTH) * 210 LBS =

DISTRIBUTED LOAD CALCULATION:

ARRAY WEIGHT: 1673.64 LBS. / MODULE GROUP AREA: 658.97 SQ. FT. = 2.54 PSF

MODULE & RACKING WEIGHT:

(MODULE WEIGHT + 3.5LBS) * MODULE QTY. (46.49 LBS)*36 = 1673.64 LBS



PV MODULE

SILFAB SIL-340 NL

TVOC =

ISC = 10.5 ADC VOC = 40.9 VDC IMP = 10.1 ADC VMP = 33.7 VDC

-0.31% / °C

WIRE SCHEDULE

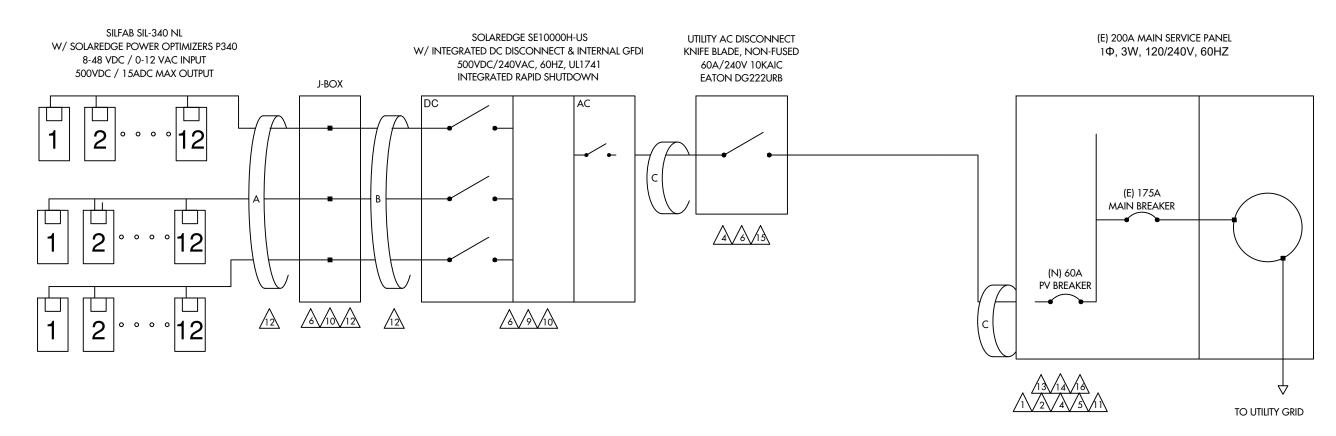
- A (6) #10 AWG-CU PV WIRE (HR)
- (1) #10 AWG-CU BARE COPPER WIRE (GND)
 IN FREE AIR
- B (6) #10 AWG-CU THWN-2 WIRE (HR)
 - (1) #10 AWG-CU THWN-2 WIRE (GND) 3/4" EMT
- C (3) #6 AWG-CU THWN-2 WIRE (HR)
- (1) #8 AWG-CU THWN-2 WIRE (GND)
- 3/4" EMT

MAIN SERVICE PANEL

BUS RATING = 200A

MAX. CURRENT RATING = 240A (200A X 1.2)

SOLAR BREAKER = 60A MAIN BREAKER = 175A TOTAL = 235A



WIRE SIZE CALCULATIONS

TEMP CORRECTION FACTOR: 0.87 (109° AMBIENT)
ROOF TOP TEMP CORRECTION FACTOR: 1 (109°)
(2" ABOVE ROOFTOP / 0° TEMP ADDERS - AS OCCURS)
(TEMP DATA TAKEN FROM ASHRAE 2% AVG HIGH TEMP)

DC WIRING

CONDUIT FILL FACTOR = 0.8

OPTIMIZER MAX. CURRENT = 18.75ADC (15A X 1.25)

#10 - AWG CU. AMPACITY = 45.10A (55A X 1.0 X 0.87) FREE AIR #10 - AWG CU. AMPACITY = 32A (40A X 1 X 0.8) ROOFTOP CONDUIT

AC WIRING

CONDUIT FILL FACTOR = 1 (3) CONDUCTORS

MAX. INVERTER CURRENT = 42A (PER INVERTER SPECS)

MIN. INVERTER OCP = 52.5A (42A X 1.25)

INVERTER OCP = 60A

#6 - AWG CU AMPACITY = 65.25A (75A X 1.0 X 0.87)

INSTALLER NOTE: DERATE TO 175A MAIN BREAKER IN METER-MAIN COMBINATION PANEL



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DATE: 12/28/2020

REV:A

DRAWN BY: DH



SILFAB SIL-340 NL

TVOC =

ISC = 10.5 ADC VOC = 40.9 VDC IMP = 10.1 ADC VMP = 33.7 VDC

-0.31% / °C

WIRE SCHEDULE

- A (6) #10 AWG-CU PV WIRE (HR)
- (1) #10 AWG-CU BARE COPPER WIRE (GND)
 IN FREE AIR
- B (6) #10 AWG-CU THWN-2 WIRE (HR)
 (1) #10 AWG-CU THWN-2 WIRE (GN
 - (1) #10 AWG-CU THWN-2 WIRE (GND) 3/4" EMT
- C (3) #6 AWG-CU THWN-2 WIRE (HR)
 - (1) #8 AWG-CU THWN-2 WIRE (GND) 3/4" EMT

SILFAB SIL-340 NL

W/ SOLAREDGE POWER OPTIMIZERS P340 8-48 VDC / 0-12 VAC INPUT 500VDC / 15ADC MAX OUTPUT SOLAREDGE SE10000H-US W/INTEGRATED DC DISCONNECT & INTERNAL GFDI 500VDC/240VAC, 60HZ, UL1741 INTEGRATED RAPID SHUTDOWN UTILITY AC DISCONNECT KNIFE BLADE, NON-FUSED 60A/240V 10KAIC EATON DG222URB MAIN SERVICE PANEL

BUS RATING = 200A

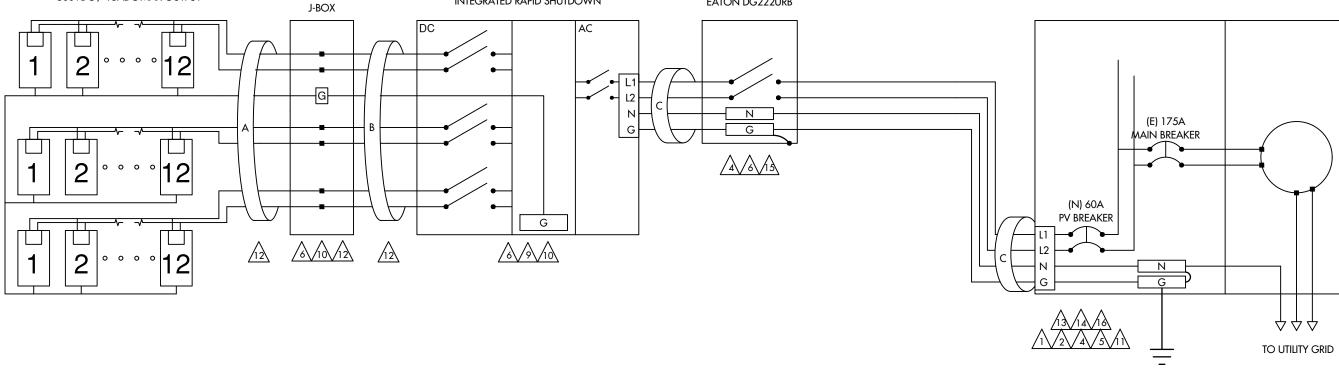
MAX. CURRENT RATING = 240A (200A X 1.2)

SOLAR BREAKER = 60A

MAIN BREAKER = 175A

TOTAL = 235A

(E) 200A MAIN SERVICE PANEL 1Ф, 3W, 120/240V, 60HZ



WIRE SIZE CALCULATIONS

TEMP CORRECTION FACTOR: 0.87 (109° AMBIENT)
ROOF TOP TEMP CORRECTION FACTOR: 1 (109°)
(2" ABOVE ROOFTOP / 0° TEMP ADDERS - AS OCCURS)
(TEMP DATA TAKEN FROM ASHRAE 2% AVG HIGH TEMP)

DC WIRING

CONDUIT FILL FACTOR = 0.8

OPTIMIZER MAX. CURRENT = 18.75ADC (15A X 1.25)

#10 - AWG CU. AMPACITY = 45.10A (55A X 1.0 X 0.87) FREE AIR #10 - AWG CU. AMPACITY = 32A (40A X 1 X 0.8) ROOFTOP CONDUIT **AC WIRING**

CONDUIT FILL FACTOR = 1 (3) CONDUCTORS

MAX. INVERTER CURRENT = 42A (PER INVERTER SPECS)

MIN. INVERTER OCP = 52.5A (42A X 1.25)

INVERTER OCP = 60A

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INSTALLER NOTE: DERATE TO 175A MAIN BREAKER IN METER-MAIN COMBINATION PANEL



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DATE: 12/28/2020

REV:A

(E) GROUNDING ELECTRODE

DRAWN BY: DH



A CAUTION PHOTOVOLTAIC SYSTEM CIRCUIT IS BACKFED

LOCATION: BACKFED BREAKER CODE REF: NEC 705.12(4)



MARNING

INVERTER OUTPUT CONNECTION: DO NOT RELOCATE THIS OVERCURRENT DEVICE

LOCATION: BACKFED BREAKER CODE REF: 2017 NEC 705.12(2)(3)(b)



WARNING

A GENERATION SCOURCE IS CONNECTED TO THE SUPPLY (UTILITY) SIDE OF THE MAIN SERVICE DISCONNECT. FOLLOW THE PROPER LOCK-OUT/TAG-OUT PROCEDURES TO ENSURE THE PHOTOVOLTAIC SYSTEM UTILITY DISCONNECT SWITCH IS

LOCATION: (IF APPLICABLE) SUPPLY SIDE TAP

CODE REF: UTILITY



PHOTOVOLTAIC AC DISCONNECT

RATED AC OPERATING CURRENT

IOMINAL OPERATING AC VOLTAGE:

240VAC

LOCATION: MAIN PANEL AC DISCONNECT(S)

CODE REF: NEC 690.54



RAPID SHUTDOWN **SWITCH FOR SOLAR PV SYSTEM**

LOCATION: MAIN PANEL (EXTERIOR) PV BREAKER (INTERIOR)

CODE REF: NEC 690.56(C)(3)



WARNING

LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

LOCATION: COMBINER PANEL

AC DISCONNECT JUNCTION BOX INVERTER(S) CODE REF: NEC 690.13(B)



PHOTOVOLTAIC

SYSTEM METER

LOCATION: DEDICATED KWH METER

CODE REF: NEC 690.4(B) UTILITY



▲ WARNING

PHOTOVOLTAIC SYSTEM **COMBINER PANEL**

DO NOT ADD LOADS



LOCATION: AC COMBINER PANEL CODE REF: NEC 690.13(B)



/10\

MAXIMUM CIRCUIT CURRENT:

MAXIMUM VOLTAGE

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

LOCATION: DC DISCONNECT INVERTER

CODE REF: UTILITY



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

DC VOLTAGE IS ALWAYS PRESENT

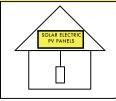
LOCATION: DC DISCONNECT, COMBINE BOX CODE REF: NEC 690.13(B)

WHEN SOLAR MODULES ARE EXPOSED TO SUNLIGHT



SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

TURN RAPID SHUTDOWN SWITCH TO THE "OFF" PV SYSTEM AND REDUCE SHOCK HAZARD IN THE ARRAY.



LOCATION: MAIN SERVICE (OUTSIDE COVER) CODE REF: NEC 690.12

YELLOW STICKER

WARNING PHOTOVOLTAIC POWER SOURCE

LOCATION: DC CONDUIT JUNCTION BOX NO MORE THAN 10FT

CODE REF: NEC 690.31(G)(3) NEC 690.31(G)(4) REFLECTIVE AND WEATHER RESISTANT

LABEL REQUIRES CAPITALIZED LETTERS WITH A MINIMUM HEIGHT OF 3/8 INCH, WHITE LETTERS ON RED BACKGROUND LABELS SHALL BE PLACED ON INTERIOR AND EXTERIOR DC CONDUIT, RACEWAYS, ENCLOSURES, AND CABLE ASSEMBLIES EVERY 10 FEET, WITHIN 1 FOOT OF TURNS OR BENDS AND WITHIN 1 FOOT ABOVE AND BELOW PENETRATIONS OF ROOF/CEILING ASSEMBLIES, WALLS OR BARRIERS



A CAUTION

DUAL POWER SOURCE SECOND SOURCE IS PHOTOVOLTAIC

LOCATION: SERVICE METER MAIN PANEL

CODE REF: UTILITY

/14\

WARNING

INVERTER OUTPUT CONNECTION DO NOT RELOCATE THIS

OVERCURRENT DEVICE

LOCATION: (IF APPLICABLE)

CODE REF: NEC 705.12(7)



PHOTOVOLTAIC SYSTEM UTILITY DISCONNECT SYSTEM

LOCATION: AC DISCONNECT

CODE REF: UTILITY



PV SOLAR BREAKER

DO NOT RELOCATE THIS **OVERCURRENT DEVICE**

LOCATION: MAIN PANEL: (EXTERIOR) PV BREAKER: (INTERIOR)

CODE REF: NEC 705.12(B)(2)(3)(B)

SOLAR POWER

LANNING, MICHAEL RESIDENCE 55 GAMACHE LN, LILLINGTON, NC, 27546 LAT:35.318159, LON:-79.003292 TSP-60522

(36) SILFAB SIL-340 NL (1) SOLAREDGE SE10000H-US 12.240 kW DC SYSTEM SIZE 10.000 kW AC SYSTEM SIZE

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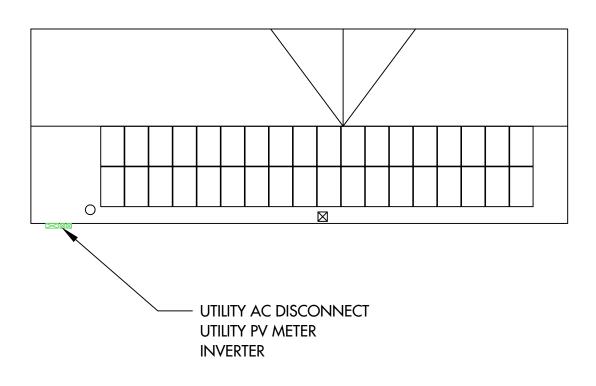
DRAWN BY: DH

LABELS **PV** 7



CAUTION

POWER TO THIS BUILDING IS SUPPLIED FROM THE FOLLOWING SOURCES WITH DISCONNECTS AS SHOWN:



DIRECTORY PLAQUE IN ACCORDANCE WITH NEC690.56(A)(B), 705.10



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(36) SILFAB SIL-340 NL (1) SOLAREDGE SE10000H-US 12.240 kW DC SYSTEM SIZE 10.000 kW AC SYSTEM SIZE

DATE: 12/28/2020

REV:A

DRAWN BY: DH

PLACARD

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

- Specifically designed to work with power optimizers
 UL1741 SA certified, for CPUC Rule 21 grid compliance
- 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 and 2017, per article 690.11 and 690.12
- Small, lightweight, and easy to install both outdoors
- 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



INVERTERS

/ 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 MinNomMax. (211 - 240 - 264)	✓	✓	✓	✓	✓	✓	✓	Vac
AC Output Voltage MinNomMax. (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	А
Maximum Continuous Output Current @208V	-	16	-	24	-	-	48.5	А
Power Factor		1, Adjustable - 0.85 to 0.85						
GFDI Threshold				1				Α
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				Vd
Nominal DC Input Voltage		3	180			400		Vd
Maximum Input Current @240V ⁽²⁾	8.5	10.5	13.5	16.5	20	27	30.5	Ad
Maximum Input Current @208V ⁽²⁾	-	9	-	13.5	-	-	27	Ad
Max. Input Short Circuit Current				45				Ad
Reverse-Polarity Protection				Yes				
Ground-Fault Isolation Detection				600kΩ Sensitivity				
Maximum Inverter Efficiency	99			9	9.2			96
CEC Weighted Efficiency		99 @ 240V 98.5 @ 208V						%
Nighttime Power Consumption		< 2.5						W

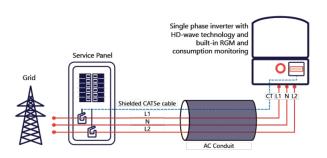
/ Single Phase Inverter with HD-Wave Technology for North America

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

MODEL NUMBER	SE3000H-US SE	3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US SE11400H-US		
ADDITIONAL FEATURES								
Supported Communication Interfaces		RS485, Ethernet, ZigBee (optional), Cellular (optional)						
Revenue Grade Metering, ANSI C12.20		Optional ⁽³⁾						
Consumption metering								
Inverter Commissioning		With the Set	App mobile applicat	ion using Built-in Wi-	Fi Access Point for Lo	ocal Connection		
Rapid Shutdown - NEC 2014 and 2017 690.12		Automatic Rapid Shutdown upon AC Grid Disconnect						
STANDARD COMPLIANCE								
Safety		UL1741, UL1741 SA, UL1699B, CSA C22.2, Canadian AFCI according to T.I.L. M-07						
Grid Connection Standards			IEE	E1547, Rule 21, Rule	14 (HI)			
Emissions				FCC Part 15 Class	В			
INSTALLATION SPECIFICAT	TIONS							
AC Output Conduit Size / AWG Range		1"	Maximum / 14-6 A	WG		1" Maximum /14-4 AWG		
DC Input Conduit Size / # of Strings / AWG Range		1" Maxir	num / 1-2 strings / 1	4-6 AWG		1" Maximum / 1-3 strings / 14-6 AWG		
Dimensions with Safety Switch (HxWxD)		17.7 x	14.6 x 6.8 / 450 x 3	70 x 174		21.3 x 14.6 x 7.3 / 540 x 370 x 185	in / mm	
Weight with Safety Switch	22 / 10		25.1 / 11.4	26.2	/ 11.9	38.8 / 17.6	lb / kg	
Noise		<	25			<50	dBA	
Cooling		Natural Convection						
Operating Temperature Range			-	40 to +140 / -40 to +	+60(4)		°F/°C	
Protection Rating		NEMA 4X (Inverter with Safety Switch)						

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









AUTHORIZATION TO MARK

This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing Report. This authorization also applies to multiple listee model(s) identified on the correlation page of the Listing

This document is the property of Intertek Testing Services and is not transferable. The certification mark(s) may be applied only at the location of the Party Authorized To Apply Mark.

Applicant:

Report Issuing Office:

SolarEdge Technologies Ltd

1 HaMada Street

Manufacturer: Celestica Romania Address:

Herzeliya 4673335

88 Soseaua Borsului, Bors, Bihor county,

417075

Country: Contact: Mr. Oren Bachar or

Address:

Phone:

FAX:

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Mr. Meir Adest

972 9 957 6591

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Contact: Phone:

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OREB.B@SOLAREDGE.COM

Email:

+40-722-964-215 rbodan@celestica.com

for Dean Davidson, Certification Manager

MEIR.A@SOLAREDGE.COM

Party Authorized To Apply Mark: Same as Manufacturer Cortland NY 13045

Control Number: 4004590

Authorized by:

Ulla-Pia Johansson-Nilsson



This document supersedes all previous Authorizations to Mark for the noted Report Number.

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> Intertek Testing Services NA Inc. 545 East Algonquin Road, Arlington Heights, IL 60005 Telephone 800-345-3851 or 847-439-5667 Fax 312-283-1672

Standard(s): Inverters, Converters, Controllers And Interconnection System Equipment For Use With Distributed Energy Resources [UL 1741:2010 Ed.2(Supplement SA)+R:07Sep2016]

Power Conversion Equipment [CSA C22.2#107.1:2016 Ed.4].

UL SUBJECT 1699B Issued: 2013/01/14 Ed: 2 Outline of Investigation for Photovoltaic (PV) DC ARC-Fault Circuit Protection

Product: Grid support Utility Interactive Inverter - Non Isolated Photovoltaic Inverter with MPPT function and Rapid Brand Name: SolarEdge

SE3000H-US, SE3800H-US, SE5000H-US, SE6000H-US, SE7600H-US, SE10000H-US and SE11400H Models:

US

ATM for Report 102144760CRT-001e

MEG

(877) 997-7652

Page 2 of 2

ATM Issued: 10-Oct-2017 ED 16.3.15 (20-Apr-17) Mandatory

ATM for Report 102144760CRT-001e

Page 1 of 2

ATM Issued: 10-Oct-2017

ED 16.3.15 (20-Apr-17) Mandatory

DATE: 12/28/2020 REV:A

SOLAR POWER 10345 NATIONS FORD RD SUITE W, CHARLOTTE, NC 28273 SEPERMITTING@TITANSOLARPOWER.COM

LANNING, MICHAEL RESIDENCE 55 GAMACHE LN, LILLINGTON, NC, 27546 LAT:35.318159, LON:-79.003292 TSP-60522

(36) SILFAB SIL-340 NL (1) SOLAREDGE SE10000H-US 12.240 kW DC SYSTEM SIZE 10.000 kW AC SYSTEM SIZE

EQUIPMENT SPECIFICATIONS DRAWN BY: DH

Report. This authorization also applies to multiple listee model(s) identified on the correlation page of the Listing This document is the property of Intertek Testing Services and is not transferable. The certification mark(s) may be applied only at the location of the Party Authorized To Apply Mark.

SolarEdge Technologies Ltd Manufacturer: Jabil Circuit (Guangzhou) LTD

This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s)

Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing

Applicant: 1 HaMada Street Address: Address: Herzeliya 4673335

128 JUN CHENG RD

Email:

GUANGZHOU, GUANGDONG 510530 China

Elaine.ouyang@jabil.com

Ulla-Pia Johansson-Nilssor

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Israel Country: Mr. Oren Bachar or Elaine Ouyang Contact:

Mr Meir Adest +972 9 957 6620 #293 or Phone: Phone: 020-2805-4025/ +972 9 957 6620 #131 135-7023-5852

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MEIR.A@SOLAREDGE.COM Party Authorized To Apply Mark: Same as Manufacturer

Report Issuing Office: Cortland NY 13045 Control Number: 4004590 Authorized by:

intertek

Country:

FAX:

Email:



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> Intertek Testing Services NA Inc. 545 East Algonquin Road, Arlington Heights, IL 60005 Telephone 800-345-3851 or 847-439-5667 Fax 312-283-1672

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Power Conversion Equipment [CSA C22.2#107.1:2016 Ed.4].

UL SUBJECT 1699B Issued: 2013/01/14 Ed: 2 Outline of Investigation for Photovoltaic (PV) DC ARC-Fault Circuit Protection

Grid support Utility Interactive Inverter - Non Isolated Photovoltaic Inverter with MPPT function and Rapid Product: Brand Name: SolarEdge

SE3000H-US, SE3800H-US, SE5000H-US, SE6000H-US, SE7600H-US, SE10000H-US and SE11400H

US

Models:

165Cm

Power Optimizer

For North America

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





PV power optimization at the module-level

- Specifically designed to work with SolarEdge
- Up to 25% more energy
- Superior efficiency (99.5%)
- / Mitigates all types of module mismatch losses, from manufacturing tolerance to partial
- Flexible system design for maximum space utilization

- Fast installation with a single bolt
- Next generation maintenance with modulelevel 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	4	00	405	485	505	W
Absolute Maximum Input Voltage (Voc at lowest temperature)	4	8	60	80	60	12	5(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 (lsc)		11		10.1	11.75	1	1	14	Add
Maximum Efficiency				99.	5				%
Weighted Efficiency				98.8				98.6	%
Overvoltage Category				II					
OUTPUT DURING OPER	ATION (POV	VER OPTIMI	ZER CONNEC	TED TO OPE	RATING SOI	LAREDGE IN	VERTER)		
Maximum Output Current				19	i				Ad
Maximum Output Voltage			60				85		Vde
OUTPUT DURING STAND	BY (POWER	OPTIMIZER	DISCONNECT	ED FROM SC	DLAREDGE IN	VERTER OR	SOLAREDGE	INVERTER O	OFF)
Safety Output Voltage per Power Optimizer		1±01							Vde
STANDARD COMPLIANO	CE								
EMC			FCC Pa	rt15 Class B, IEC6	1000-6-2, IEC6100	0-6-3			
Safety		IEC62109-1 (class II safety), UL1741							
Material				UL94 V-0 , L	IV Resistant				
RoHS				Ye	Ś				
INSTALLATION SPECIFIC	CATIONS								
Maximum Allowed System Voltage				100	00				Vde
Compatible inverters			All SolarEd	dge Single Phase	and Three Phase i	inverters			
Dimensions (W x L x H)	129)	< 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 / 5.1 x 6.3 x 1.9	129 x 162 x 59 / 5.1 x 6.4 x 2.3	mm /ir
Weight (including cables)		630 / 1.4		750 / 1.7	655 / 1.5	845	/ 1.9	1064 / 2.3	gr/
Input Connector			MC	4(3)			Single or dual MC4 ⁽³⁾⁽⁴⁾	MC4 ⁽³⁾	
Input Wire Length				0.16 /	0.52				m/
Output Wire Type / Connector				Double Insul	ated / MC4				
Output Wire Length	0.9 /	2.95			1.2 /	3.9			m/
Operating Temperature Range ⁽⁵⁾				-40 - +85 /					°C /
Notice out to Disease to	IP68 / NEMA6P								
Protection Rating				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 P485-4NMDMRM. 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 ⁽⁶⁾⁽⁷⁾		Single Phase HD-Wave	Single phase	Three Phase for 208V grid	Three Phase for 277/480V grid	
Minimum String Length P320, P340, P370, P400, P401		8		10	18	
(Power Optimizers)	P405, P485, P505	(i	8	14	
Maximum String Length (Power	Optimizers)	25		25	50(8)	
Maximum Power per String		5700 (6000 with SE7600-US - SE11400- US)	5250	6000 ^(a)	12750(10)	W
Parallel Strings of Different Lengt	hs or Orientations		Υ	es es		

(6) For detailed string sizing information refer to: http://www.solaredge.com/sites/default/files/string_sizing_na.pdf
(7) It is not allowed to mix P405/P485/P505 with P320/P340/P370/P400/P401 in one string
(a) A string with more than 30 optimizers does not meet NEC rapid shutdown requirements; safety voltage will be above the 30V requirement
(9) For 2080 Yidi: It is allowed to install up to 72,200W per string when the maximum power difference between each string is 1,000W
(10) 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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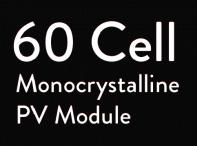
RoHS



SEPERMITTING@TITANSOLARPOWER.COM

(877) 997-7652











CHUBB

SIL-340 NL SILFAB SOLAR Silfab















MAXIMUM ENERGY OUTPUT

INDUSTRY LEADING WARRANTY

The Titan Solar Panel is manufactured by Silfab Solar and includes an industry leading 25-year product workmanship and 30-year performance warranty.

Leveraging over 35+ years of worldwide experience in the solar industry, Silfab is dedicated to superior manufacturing processes and innovations such as Bifacial and Back Contact technologies, to ensure our partners, such as Titan Solar have the latest in solar innovation.

NORTH AMERICAN QUALITY

Silfab is the leading automated solar module manufacturer in North America. Utilizing premium quality materials and strict quality control management to deliver the highest efficiency, premium quality PV modules 100% made in North America.



III BAA / ARRA COMPLIANT

Panels are designed and manufactured to meet Buy American Act Compliance. The US State Department, US Military and FAA have all utilized Silfab panels in their solar installations.

III LIGHT AND DURABLE

Engineered to accommodate high wind load conditions for test loads validated up to 4000Pa uplift. The light-weight frame is exclusively designed for wide-ranging racking compatibility and durability.

III QUALITY MATTERS

Total automation ensures strict quality controls during the entire manufacturing process at ISO certified facilities.

III DOMESTIC PRODUCTION

Silfab Solar manufactures PV modules in two automated locations within North America. Our 500+ North American team is ready to help Titan Solar win the hearts and minds of customers, providing customer service and product delivery that is direct, efficient and local.

AESTHETICALLY PLEASING

All black sleek design, ideal for high-profile residential or commercial applications.

III PID RESISTANT

PID Resistant due to advanced cell technology and material selection. In accordance to IEC 62804-1.

LANNING, MICHAEL RESIDENCE

55 GAMACHE LN, LILLINGTON, NC, 27546

LAT:35.318159, LON:-79.003292

TSP-60522

Electrical Specifications		SIL-340 N	L mono PERC
Test Conditions		STC	NOCT
Module Power (Pmax)	W _P	340	241
Maximum power voltage (Vpmax)	V	33.7	30.4
Maximum power current (Ipmax)	Α	10.1	7.9
Open circuit voltage (Voc)	V	40.9	37.1
Short circuit current (Isc)	Α	10.5	8.3
Module efficiency	%	20.0	17.7
Maximum system voltage (VDC)	V	1	000
Series fuse rating	Α		20
Power Tolerance	Wp	+	/-3%

 $\label{eq:measurement} \begin{tabular}{ll} Measurement conditions: STC 1000 W/m^2 + AM 1.5 + Temperature 25 °C + NOCT 800 W/m^2 + AM 1.5 + Measurement uncertainty ≤ 3 $\sum 8$ sun simulator calibration reference modules from Fraunhofer Institute. Electrical characteristics may vary by $\pm 5\%$ and power by $\psi/-3\%$.$

Temperature Ratings		SIL-340 NL mono PERC				
Temperature Coefficient Isc	0.064 %/°C					
Temperature Coefficient Voc	-0.28 %/°C					
Temperature Coefficient Pmax		-0.36	6 %/°C			
NOCT (± 2°C)		46	5°C			
Operating temperature		-40/-	+85 °C			
Mechanical Properties and Components		SIL-340 NL	mono PERC			
Module weight		41 ±0	0.4 lbs			
Dimensions (H x L x D)		66.9 in x 39	9.4 in x 1.5 in			
Maximum surface load (wind/snow)*		83.5/112	2.8 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 ir	n, MC4 from Staubli			
Backsheet	High durability, superior h	ydrolysis and UV resistance	, multi-layer dielectric film,	fluorine-free PV backshee		
Frame		Anodized Alu	minum (Black)			
Bypass diodes	3 diodes-30SQ	045T (45V max DC blockir	ng voltage, 30A max forward	rectified current)		
Junction Box		UL 3730 Certified, IEC 6	2790 Certified, IP67 rate	1		
Warranties	SIL-340 NL mono PERC					
Module product workmanship warranty	25 years**					
l:		30 years				
Linear power performance guarantee	≥ 97.1% end 1st 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					

Factory

Modules Per Pallet: 26

Pallets Per Truck: 36 Modules Per Truck: 936

*A 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

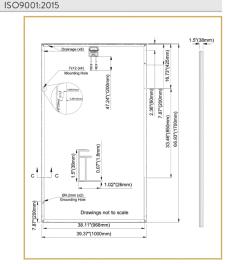


Titan Solar Power 525 W Baseline Rd Mesa, AZ 85210 Tel 855 SAY-SOLAR litansolarpower.com info@titansolarpower



Silfab Solar Inc. 240 Courtneypark Drive East Mississauga ON L5T 2Y3 Canada Tel +1 905-255-2501 | Fax +1 905-696-0267

Silfab Solar Inc. 800 Cornwall Ave Bellingham WA 98225 USA Tel +1 360-569-4733



Salt Mist Corrosion Certifed, UL Fire Rating: Type 2

(36) SILFAB SIL-340 NL (1) SOLAREDGE SE10000H-US 12.240 kW DC SYSTEM SIZE 10.000 kW AC SYSTEM SIZE

DATE: 12/28/2020

REV:A



Patent #8448407

LOW PROFILE QUICKBOLT







3" Microflashing® Low Profile

PN# **BOX QTY** 17664 5.25" Bolts (10) 17666 Bolts + 3" Microflashing® (10ea.) Bolts + 3" Microflashing® 17667SS + SS L-Foot + Nuts (25ea.)

First & only Microflashing® in the industry Stainless Steel L-Foot Fastest installation in the industry **UL** Certified



LOW PROFILE QUICKBOLT





Asphalt Shingle

PN# **BOX QTY** 17664 5.25" Bolts (10) 17720 Bolts + 4" Microflashing® (10ea.) Bolts + 4" Microflashing® 17721SS + SS L-Foot + Nuts (20ea.)

First & only Microflashing® in the industry Stainless Steel L-Foot 4" Microflashing® provides more coverage Fastest installation in the industry **UL** Certified



7" QUICKBOLT







PN#	BOX QTY
17670	7" Bolts (10)
17671	Bolts + 3" Microflashing® (10ea.)
17672SS	Bolts (20) + 3" Microflashing® (20) + SS L-Foot (20) + Nuts (40)

First & only Microflashing® in the industry Stainless Steel L-Foot **UL** Certified



Patent #8448407

" QUICKBOLT







PN#	BOX QTY
17670	7" Bolts (10)
17723	Bolts + 4" Microflashing® (10ea.)
17724SS	Bolts (15) + 4" Microflashing® (15) + SS L-Foot (15) + Nuts (30)

First & only Microflashing® in the industry Stainless Steel L-Foot 4" Microflashing® provides more coverage



3" & 4" MICROFLASHING®





Asphalt Shingle 3" Microflashing®



4" Microflashina®

PN# **BOX QTY** 17669 3" Microflashing® (10) 17659 4" Microflashing® (40)

First & only Microflashing® in the industry Original Microflashing® design EPDM on bottom, Stainless Steel on top Compresses to composite shingle roof Leak-proof seal **UL** Certified







PN# **BOX QTY** 15891SS SS L-Foot (10) 15894SS SS L-Foot (10)

Stainless Steel Rail slot for adjustability when connecting T-Bolts



QUICK RATCHET CONDUIT CLAMP



Asphalt Shingle

SCREW SIZE PN# **BOX QTY** 16255 10 Clamps N/A

For running conduit Attaches directly to any QuickBOLT Mounting Kit Offers flexibility in bundling cables/wires



L-FOOT MOUNTING KIT





SCREW SIZE **BOX QTY** 17713 | 20 Flashing + L-Foot | 5/16" x 4"

Stainless Steel L-Foot mounting system Stronger than Aluminim Flashing

5

UL Certified

SOLAR POWER

Patent #8448407

LANNING, MICHAEL RESIDENCE 55 GAMACHE LN, LILLINGTON, NC, 27546 LAT:35.318159, LON:-79.003292 TSP-60522

(36) SILFAB SIL-340 NL (1) SOLAREDGE SE10000H-US 12.240 kW DC SYSTEM SIZE 10.000 kW AC SYSTEM SIZE

DATE: 12/28/2020

REV:A

DRAWN BY: DH

CrossRail 48-X

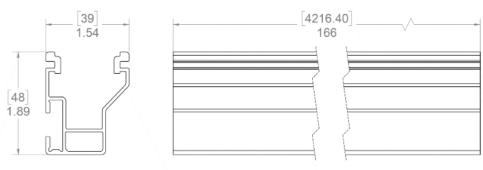


Mechanical Properties

	CrossRail 48-X
Material	6000 Series Aluminum
Ultimate Tensile Strength	37.7 ksi (260 MPa)
Yield Strength	34.8 ksi (240 MPa)
Weight	0.56 lbs/ft (0.833 kg/m)
Finish	Mill or Dark Anodized

Section Properties

		CrossRail 48-X
	Sx	0.1980 in ³ (3.261 cm ³)
	Sy	0.1510 in ³ (2.507 cm ³)
	A (X-Section)	0.4650 in ² (3.013 cm ²)



Dimensions in [mm] Inches

Notes:

- Structural values and span charts determined in accordance with Aluminum Design Manual and ASCE 7-10
- UL2703 Listed System for Fire and Bonding

www.everest-solarsystems.com

