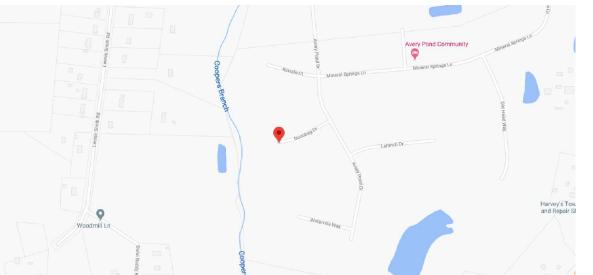
VICINITY MAP

SCALE: NTS



AERIAL MAP SCALE: NTS



RUIZ, VICTOR PV SYSTEM 59 DOONBEG DRIVE. FUQUAY-VARINA, NC, 27526 JURISDICTION: HARNETT COUNTY

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

UTILITY: DUKE PROGRESS NC

GENERAL INFORMATION

7.455 kW-DC-STC SYSTEM SIZE:

6.000 kW-AC

ROOF PITCHED: 26 DEGREES

INVERTER: (1) SOLAREDGE SE6000H-US W/ P370 OPTIMIZERS

MODULES: (21) LG355N1K-B6

STRINGS: (1)x10, (1)x11 MODULE SERIES STRINGS

ELECTRICAL SERVICE RATING: 200A PV SYSTEM OVERCURRENT RATING: 35A

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

ROOF TYPE:

ROOF FRAMING: MANUFACTURED/ENGINEERED TRUSS

RACKING:

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

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.

TABLE OF CONTENTS

| 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 | |

10345 NATIONS FORD RD SUITE W, CHARLOTTE, NC 28273

SEPERMITTING@TITANSOLARPOWER.COM

(877) 997-7652

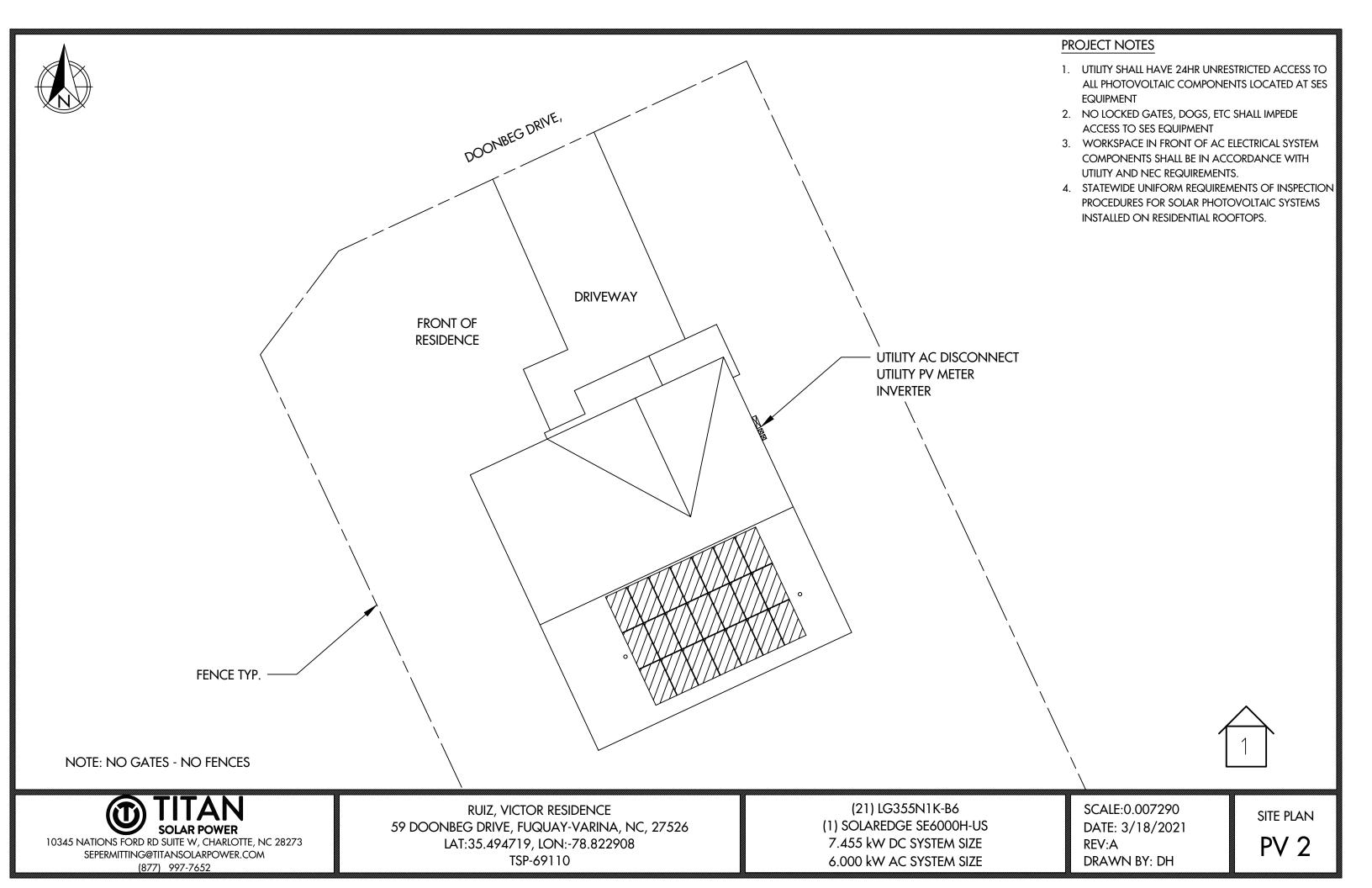
RUIZ, VICTOR RESIDENCE 59 DOONBEG DRIVE, FUQUAY-VARINA, NC, 27526 LAT:35.494719, LON:-78.822908 TSP-69110

(21) LG355N1K-B6 (1) SOLAREDGE SE6000H-US 7.455 kW DC SYSTEM SIZE 6.000 kW AC SYSTEM SIZE

DATE: 3/18/2021 REV:A

DRAWN BY: DH

COVER PAGE PV 1



ARRAY AR-01

QUANTITY: 21

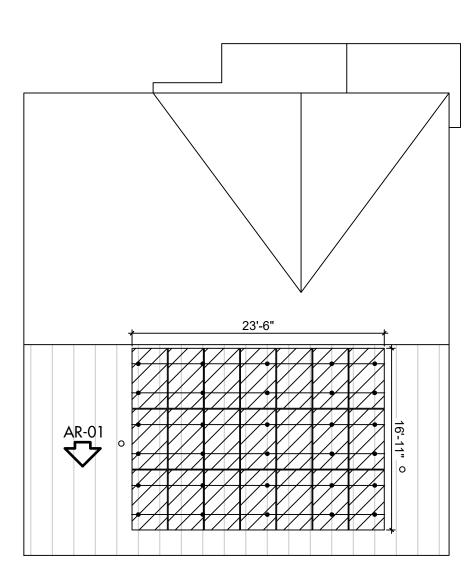
MOUNTING TYPE: FLUSH

ARRAY TILT: 26° AZIMUTH: 155°

ATTACHMENT SPACING: 6'

ROOF TYPE: COMP





NOTES

- ROOF VENTS, SKYLIGHTS, WILL NOT
 BE COVERED UPON PV INSTALLATION
- TOTAL ROOF AREA = 1814 SQ-FT
- TOTAL ARRAY AREA = 409.57 SQ-FT
- ARRAY COVERAGE = 22.58%



DRAWN BY: DH

MODULE & RACKING INFORMATION

MODULE: LG355N1K-B6 MODULE WEIGHT: 41 LBS

MODULE DIMENSIONS: $68.5" \times 41" \times 1.5"$ RACKING/RAIL: QUICKBOLT / EVEREST **ROOF & FRAMING INFORMATION**

MATERIAL: COMP

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

ARRAY INFORMATION:

ARRAY 01: 21 MODULES

UPLIFT CALCULATION:

PANEL GROUP AREA: = MODULE AREA: 19.50 SQ.FT * MODULE QTY. 21 = 409.57 SQ.FT

TOTAL UPLIFT: = PANEL GROUP AREA:409.57 SQ. FT. * WIND LOAD 30 PSF = TOTAL LOAD 12287.19 LBS.

POINT LOAD CALCULATION:

ARRAY WEIGHT: MODULE WEIGHT (41 +3.5)

* MODULE QTY.21 = 934.50 LBS / 30

MOUNTING POINTS = 31.15 LBS. PER

MOUNTING POINT

PULLOUT STRENGTH CALCULATION:

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

PULLOUT STRENGTH: = OF MOUNTING

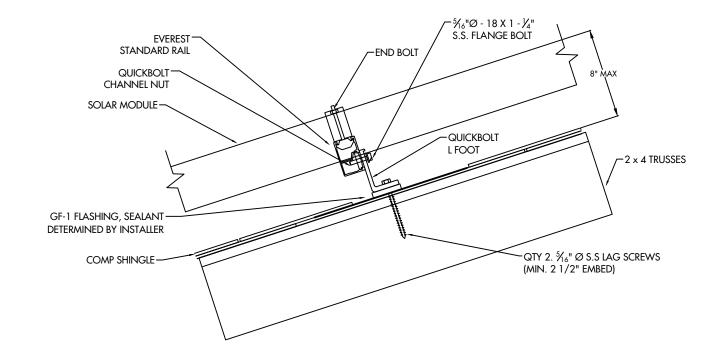
POINTS: 30 * 2.5 (EMBED DEPTH) * 210 LBS = 15750.00 LBS.

DISTRIBUTED LOAD CALCULATION:

ARRAY WEIGHT: 934.50 LBS. / MODULE GROUP AREA: 409.57 SQ. FT. = 2.28 PSF

MODULE & RACKING WEIGHT:

(MODULE WEIGHT + 3.5LBS) * MODULE QTY. (44.5 LBS)*21 = 934.50 LBS



PV MODULE

LG355N1K-B6

355W 10.72 ADC = 41.5 VDC VOC =

10.15 ADC VMP = 35 VDC TVOC = -0.26% / °C

WIRE SCHEDULE

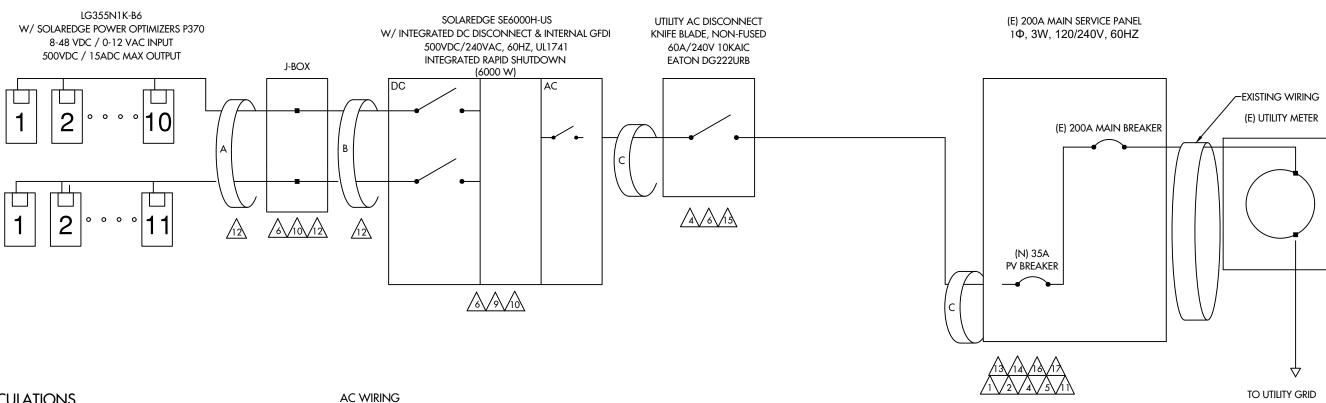
- A (4) #10 AWG-CU PV WIRE (HR)
- (1) #10 AWG-CU BARE COPPER WIRE (GND)
- B (4) #10 AWG-CU THWN-2 WIRE (HR)
 - (1) #10 AWG-CU THWN-2 WIRE (GND)
 - 3/4" EMT
- C (3) #8 AWG-CU THWN-2 WIRE (HR)
- (1) #8 AWG-CU THWN-2 WIRE (GND)
- 3/4" EMT

MAIN SERVICE PANEL

BUS RATING 200A

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

SOLAR BREAKER 35A MAIN BREAKER 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

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

CONDUIT FILL FACTOR 1 (3) CONDUCTORS MAX. INVERTER CURRENT = 25A (PER INVERTER SPECS) MIN. INVERTER OCP 31.25A (25A X 1.25)

INVERTER OCP 35A

47.85A (55A X 1.0 X 0.87) #8 - AWG CU AMPACITY =



SEPERMITTING@TITANSOLARPOWER.COM

(877) 997-7652

RUIZ, VICTOR RESIDENCE 59 DOONBEG DRIVE, FUQUAY-VARINA, NC, 27526 LAT:35.494719, LON:-78.822908 TSP-69110

(21) LG355N1K-B6 (1) SOLAREDGE SE6000H-US 7.455 kW DC SYSTEM SIZE 6.000 kW AC SYSTEM SIZE

DATE: 3/18/2021

REV:A

DRAWN BY: DH

ONE LINE PV 5

PV MODULE

LG355N1K-B6

355W =

ISC 10.72 ADC = 41.5 VDC VOC =

10.15 ADC VMP = 35 VDC TVOC = -0.26% / °C

WIRE SCHEDULE

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

B - (4) #10 AWG-CU THWN-2 WIRE (HR)

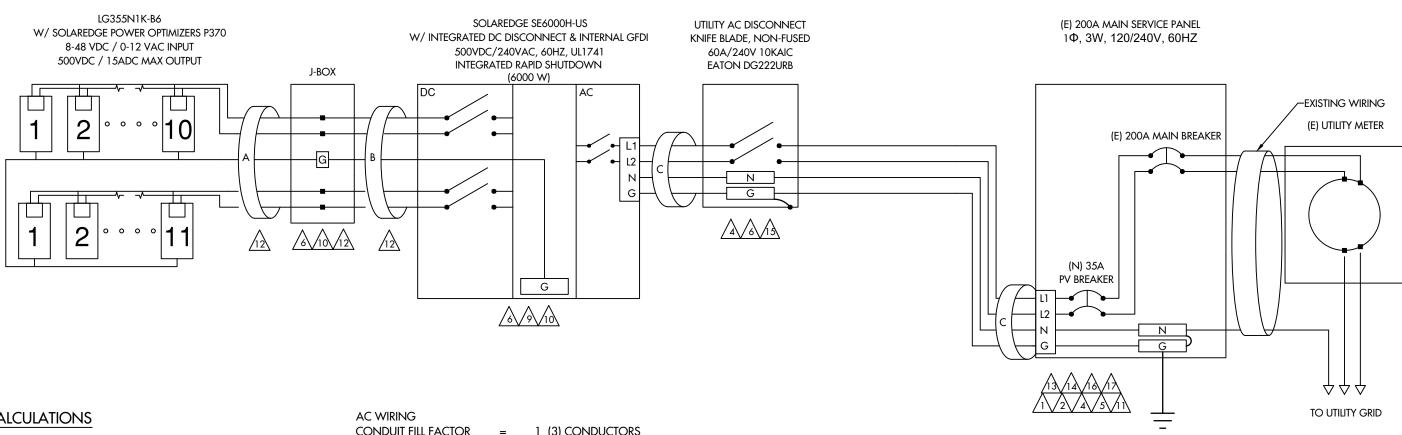
- (1) #8 AWG-CU THWN-2 WIRE (GND)
- 3/4" EMT

MAIN SERVICE PANEL

BUS RATING 200A

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

SOLAR BREAKER 35A MAIN BREAKER 200A 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 8.0

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

CONDUIT FILL FACTOR 1 (3) CONDUCTORS MAX. INVERTER CURRENT = 25A (PER INVERTER SPECS) MIN. INVERTER OCP 31.25A (25A X 1.25)

INVERTER OCP 35A

47.85A (55A X 1.0 X 0.87) #8 - AWG CU AMPACITY =



SEPERMITTING@TITANSOLARPOWER.COM

(877) 997-7652

RUIZ, VICTOR RESIDENCE 59 DOONBEG DRIVE, FUQUAY-VARINA, NC, 27526 LAT:35.494719, LON:-78.822908 TSP-69110

(21) LG355N1K-B6 (1) SOLAREDGE SE6000H-US 7.455 kW DC SYSTEM SIZE 6.000 kW AC SYSTEM SIZE

DATE: 3/18/2021

REV:A DRAWN BY: DH

(E) GROUNDING ELECTRODE

THREE LINE PV 6



A CAUTION PHOTOVOLTAIC SYSTEM CIRCUIT IS BACKFED

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

LOCATION: BACKFED BREAKER

CODE REF: 2017 NEC 705.12(2)(3)(b)



WARNING

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

INVERTER OUTPUT CURRENT DEVICE. DO NOT RELOCATE THIS OVERCURRENT DEVICE.



WARNING

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

A GENERATION SOURCE 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 OPENED PRIOR TO PERFORMING WORK ON THIS DEVICE

LOCATION: (IF APPLICABLE) SUPPLY SIDE TAP



PHOTOVOLTAIC AC DISCONNECT

RATED AC OPERATING CURRENT

NOMINAL OPERATING AC VOLTAGE:

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

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

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

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

DO NOT ADD LOADS

PHOTOVOLTAIC COMBINER PANEL.



MAXIMUM VOLTAGE

MAXIMUM CIRCUIT CURRENT:

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

LOCATION: DC DISCONNECT INVERTER

CODE REF: UTILITY

LOCATION: DC DISCONNECT, COMBINE BOX

CODE REF: NEC 690.13(B)

LOCATION: AC COMBINER PANEL

CODE REF: NEC 690.13(B)



IN THE OPEN POSITION DC VOLTAGE IS ALWAYS PRESENT WHEN SOLAR MODULES ARE

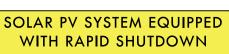
WARNING

ELECTRICAL SHOCK HAZARD

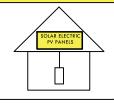
TERMINALS ON BOTH LINE AND

LOAD SIDES MAY BE ENERGIZED

EXPOSED TO SUNLIGHT



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)

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) SERVICE PANEL

CODE REF: NEC 705.12(7)



PHOTOVOLTAIC SYSTEM UTILITY DISCONNECT SYSTEM

CODE REF: UTILITY

LOCATION: AC DISCONNECT



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)

WARNING

TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE PANEL

LOCATION: MAIN PANEL:(EXTERIOR)

CODE REF: OSHA 1910.145

SOLAR POWER

RUIZ, VICTOR RESIDENCE 59 DOONBEG DRIVE, FUQUAY-VARINA, NC, 27526 LAT:35.494719, LON:-78.822908 TSP-69110

(21) LG355N1K-B6 (1) SOLAREDGE SE6000H-US 7.455 kW DC SYSTEM SIZE 6.000 kW AC SYSTEM SIZE

DATE: 3/18/2021

REV:A

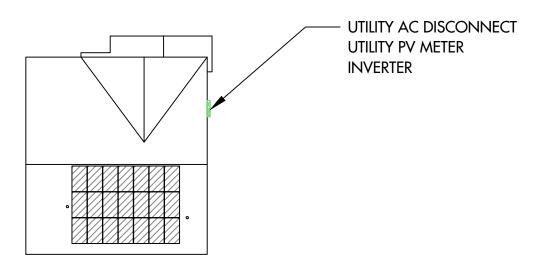
DRAWN BY: DH

LABELS **PV** 7





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



10345 NATIONS FORD RD SUITE W, CHARLOTTE, NC 28273 SEPERMITTING@TITANSOLARPOWER.COM (877) 997-7652 RUIZ, VICTOR RESIDENCE 59 DOONBEG DRIVE, FUQUAY-VARINA, NC, 27526 LAT:35.494719, LON:-78.822908 TSP-69110 (21) LG355N1K-B6 (1) SOLAREDGE SE6000H-US 7.455 kW DC SYSTEM SIZE 6.000 kW AC SYSTEM SIZE

DATE: 3/18/2021

REV:A DRAWN BY: DH PLACARD PV 8

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

INVERTERS

- 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



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

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

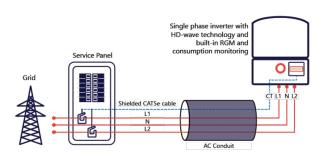
| MODEL NUMBER | SE3000H-US | SE3800H-US | SE5000H-US | SE6000H-US | SE7600H-US | SE10000H-US | SE11400H-US | |
|--|-------------------|------------------------------|------------|---------------------------------|------------|-------------|------------------------------|----|
| APPLICABLE TO INVERTERS 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) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | Va |
| AC Output Voltage MinNomMax. (183 - 208 - 229) | - | ✓ | - | ✓ | - | - | ✓ | Va |
| 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 | | | | 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 | V |
| Transformer-less, Ungrounded | | | | Yes | | | | |
| Maximum Input Voltage | | | | 480 | | | | Vo |
| Nominal DC Input Voltage | | 3 | 380 | | | 400 | | Vo |
| Maximum Input Current @240V ⁽²⁾ | 8.5 | 10.5 | 13.5 | 16.5 | 20 | 27 | 30.5 | Ac |
| Maximum Input Current @208V ⁽²⁾ | - | 9 | - | 13.5 | - | - | 27 | Ac |
| Max. Input Short Circuit Current | | | | 45 | | | | Ac |
| Reverse-Polarity Protection | | | | Yes | | | | |
| Ground-Fault Isolation Detection | | 600kΩ Sensitivity | | | | | | |
| Maximum Inverter Efficiency | 99 | | | g | 9.2 | | | 96 |
| CEC Weighted Efficiency | | 99 9 240V 99 98.5 @ 208V | | | | | | 9 |
| Nighttime Power Consumption | | | | < 2.5 | | | | V |

/ 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 | |
|---|------------|---|------------------------|-------------------------|------------------------|-------------------|--------------------|------------|
| 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 applicati | on using Built-in Wi- | Fi Access Point for Lo | ocal Connection | | |
| Rapid Shutdown - NEC 2014 and 2017 690.12 | | | Automatic Rap | id Shutdown upon A | C Grid Disconnect | | | |
| STANDARD COMPLIANCE | | | | | | | | |
| Safety | | UL1741, | UL1741 SA, UL1699B | CSA C22.2, Canadia | n AFCI according to | T.I.L. M-07 | | |
| Grid Connection Standards | | | IEE | E1547, Rule 21, Rule | 14 (HI) | | | |
| Emissions | | | | FCC Part 15 Class E | 3 | | | |
| INSTALLATION SPECIFICAT | TIONS | | | | | | | |
| AC Output Conduit Size / AWG Range | | 1' | ' Maximum / 14-6 AV | VG | | 1" Maximur | n /14-4 AWG | |
| DC Input Conduit Size / # of Strings / AWG Range | | 1" Maxi | mum / 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 37 | 0 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 | 1 | | | |
| Operating Temperature Range | | | | 40 to +140 / -40 to + | 60(4) | | | °F/°C |
| Protection Rating | | NEMA 4X (Inverter with Safety Switch) | | | | | | |

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







DRAWN BY: DH

How to Enable Consumption Monitoring



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: Address:

SolarEdge Technologies Ltd

1 HaMada Street

Manufacturer: Celestica Romania

Address: 88 Soseaua Borsului, Bors, Bihor county, 417075

Herzeliya 4673335

Country:

Romania

Israel Country: Contact:

Mr. Oren Bachar or Mr. Meir Adest

Contact: Renata Bodan

Phone:

+972 9 957 6620 #293 or

+972 9 957 6620 #131

Phone:

+40-359-403-661

FAX: 972 9 957 6591 OREB.B@SOLAREDGE.COM Email:

FAX: 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

Report Issuing Office: Control Number: 4004590 Cortland NY 13045

Authorized by:

Ulla-Pia Johansson-Nilsson



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

This Authorization to Mark is for the exclusive use of Intertek's Client and is provided pursuant to the Certification agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Authorization to Mark. Only the Client is authorized to permit copying or distribution of this Authorization to Mark and then only in its entirety. Use of Intertek's Certification mark is restricted to the conditions laid out in the agreement and in this Authorization to Mark. Any further use of the Intertek name for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. Initial Factory Assessments and Follow up Services are for the purpose of assuring appropriate usage of the Certification mark in accordance with the agreement, they are not for the purposes of production quality control and do not relieve the Client of their obligations in this respect

> 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 US

ATM for Report 102144760CRT-001e

Page 2 of 2

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

165Cm

DATE: 3/18/2021

REV:A DRAWN BY: DH

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:

Address:

Country:

Phone:

FAX:

Email:

intertek

SolarEdge Technologies Ltd

Israel

Party Authorized To Apply Mark:

Control Number: 4004590

Report Issuing Office:

1 HaMada Street

Herzeliya 4673335

Mr. Oren Bachar or

+972 9 957 6620 #293 or

+972 9 957 6620 #131

Mr Meir Adest

972 9 957 6591

Manufacturer: Jabil Circuit (Guangzhou) LTD

Address:

DEV EAST DISTRICT 128 JUN CHENG RD

GUANGZHOU, GUANGDONG 510530

China

Country: Elaine Ouyang

Contact:

Phone:

020-2805-4025/ 135-7023-5852

FAX:

Email: Elaine.ouyang@jabil.com

OREB.B@SOLAREDGE.COM MEIR.A@SOLAREDGE.COM

Same as Manufacturer

Cortland NY 13045

Authorized by:

Ulla-Pia Johansson-Nilssor

for Dean Davidson, Certification Manager



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

This Authorization to Mark is for the exclusive use of Intertek's Client and is provided pursuant to the Certification agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Authorization to Mark. Only the Client is authorized to permit copying or distribution of this Authorization to Mark and then only in its entirety. Use of Intertek's Certification mark is restricted to the conditions laid out in the agreement and in this Authorization to Mark. Any further use of the Intertek name for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. Initial Factory Assessments and Follow up Services are for the purpose of assuring appropriate usage of the Certification mark in accordance with the agreement, they are not for the purposes of production quality control and do not relieve the Client of their obligations in this respect.

> 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

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 Models:

US

ATM for Report 102144760CRT-001e

Page 1 of 2

(21) LG355N1K-B6

(1) SOLAREDGE SE6000H-US

7.455 kW DC SYSTEM SIZE

6.000 kW AC SYSTEM SIZE

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

SOLAR POWER

RUIZ. VICTOR RESIDENCE 59 DOONBEG DRIVE, FUQUAY-VARINA, NC, 27526 LAT:35.494719, LON:-78.822908 TSP-69110

MEG

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 (Isc) | | 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 | , | | | | Add |
| Maximum Output Voltage | | | 60 | | | | 85 | | Vde |
| OUTPUT DURING STAND | BY (POWER | OPTIMIZER | DISCONNECT | ED FROM SC | LAREDGE IN | NVERTER OR | SOLAREDGE | INVERTER O | OFF) |
| Safety Output Voltage per Power Optimizer | | | | 1 ± | 0.1 | | | | 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 , U | IV Resistant | | | | |
| RoHS | Yes | | | | | | | | |
| 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) | 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 / 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/ |
| 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/ |
| O (T D (D | -40 - +85 / -40 - +185 | | | | | | | | °C/ |
| Operating Temperature Range ⁽⁵⁾ | IP68 / NEMA6P | | | | | | | | |
| Protection Rating | | | | IP68 / N | EMA6P | | | | |

(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 Des a SolarEdge In | ign Using verter ⁽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 | 3 | 10 | 18 | |
| (Power Optimizers) | P405, P485, P505 | 6 | i | 8 | 14 | |
| Maximum String Length (Power G | Optimizers) | .2 | 5 | 25 | 50 ⁽⁸⁾ | |
| Maximum Power per String | | 5700 (6000 with SE7600-US - SE11400- US) | 5250 | 6000 _(a) | 12750 ⁽¹⁰⁾ | W |
| Parallel Strings of Different Lengtl | ns or Orientations | | Y | 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

© SolarEdge Technologies Ltd. All rights reserved. SOLAREDGE, the SolarEdge logo, OPTIMIZED BY SOLAREDGE are trademarks or registered trademarks of SolarEdge Technologies, Inc. All other trademarks mentioned herein are trademarks of their respective owners. Date: 07/2020/V02/ENG NAM. Subject to change without notice.







DRAWN BY: DH

LG NeON® 2 Black

The LG NeON® 2 Black is one of the most powerful and versatile modules on the market today, combining LG's Cello technology and monocrystalline N-type solar cells with a stunning black design. The LG NeON® 2 Black includes a 25-year product and 90.1% performance warranty for higher performance and reliability.

LG355N1K-B6

FEATURES



Enhanced Performance Warranty

LG NeON®2 Black comes with an enhanced performance warranty. After 25 years of use, the LG NeON®2 Black is guaranteed to provide at least 90.1% of initial performance.



Industry-Leading Product Warranty

LG offers an industry-leading 25 year product warranty on



Reliable Quality

LG NeON®2 Black offers reliable and proven quality through rigorous testing.



Sleek Rooftop Design

The LG NeON®2 Black is designed to make the entire module look black, providing a sleek, modern design that blends in seamlessly with the rooftop.















LG is transforming today's solar landscape, offering high-efficiency solar panels for customers who demand high performance, reliability and consistent strong energy yield from a brand they can trust. LG's modules feature high power outputs, outstanding durability, appealing aesthetics and high-efficiency



LG NeON®2 Black

Preliminary

LG355N1K-B6

General Data

| Cell Properties (Material / Type) | Monocrystalline / N-type |
|-----------------------------------|--------------------------------|
| Cell Maker | LG |
| Cell Configuration | 60 Cells (6 x 10) |
| Number of Busbars | 12 EA |
| Module Dimensions (L x W x H) | 1,740 x 1,042 x 40mm |
| Weight | 18.6 kg |
| Glass (Material) | Tempered Glass with AR coating |
| Backsheet (Color) | Black |
| Frame (Material) | Anodized Aluminium |
| Junction Box (Protection Degree) | IP 68 with 3 Bypass Diodes |
| Cables (Length) | 1,100 mm x 2 EA |
| Connector (Type / Maker) | MC4 / MC |

Certifications and Warranty

| | IEC 61215-1 / -1-1 / 2:2016, IEC 61730-1 / 2:2016, UL 61730-1:2017, UL 61730-2:2017 | | | | |
|-------------------------------|---|--|--|--|--|
| Certifications | ISO 9001, ISO 14001, ISO 50001 | | | | |
| | OHSAS 18001 | | | | |
| Salt Mist Corrosion Test | IEC 61701 : 2011 Severity 6 | | | | |
| Ammonia Corrosion Test | IEC 62716 : 2013 | | | | |
| Module Fire Performance | Type 2 (UL 61730) | | | | |
| Fire Rating | Class C (UL 790) | | | | |
| Solar Module Product Warranty | 25 Years | | | | |
| Solar Module Output Warranty | Linear Warranty* | | | | |

^{* 1)} First years : 98%, 2) After 1st year : -0.33%/year, 3) 90.1% for 25 years

Temperature Characteristics

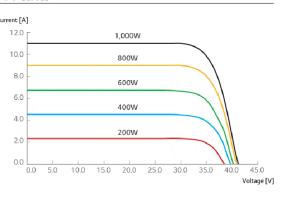
| NMOT* | [°C] | 42 ± 3 | |
|-------|--------|--------|--|
| Pmax | [%/°C] | -0.35 | |
| Voc | [%/°C] | -0.26 | |
| Isc | [%/°C] | 0.03 | |

^{*} NMOT (Nominal Module Operating Temperature)

Electrical Properties (NMOT)

| Model | | LG355N1K-B6 | | |
|-----------------------------|-----|-------------|--|--|
| Maximum Power (Pmax) | [W] | 266 | | |
| MPP Voltage (Vmpp) | [V] | 32.9 | | |
| MPP Current (Impp) | [A] | 8.10 | | |
| Open Circuit Voltage (Voc) | [V] | 39.1 | | |
| Short Circuit Current (Isc) | [A] | 8.61 | | |

I-V Curves



Electrical Properties (STC*)

| Model | | LG355N1K-B6 |
|-----------------------------------|-----|-------------|
| Maximum Power (Pmax) | [W] | 355 |
| MPP Voltage (Vmpp) | [V] | 35.0 |
| MPP Current (Impp) | [A] | 10.15 |
| Open Circuit Voltage (Voc, ± 5%) | [V] | 41.5 |
| Short Circuit Current (Isc, ± 5%) | [A] | 10.72 |
| Module Efficiency | [%] | 19.6 |
| Power Tolerance | [%] | 0 ~ +3 |

^{*} STC (Standard Test Condition)

Operating Conditions

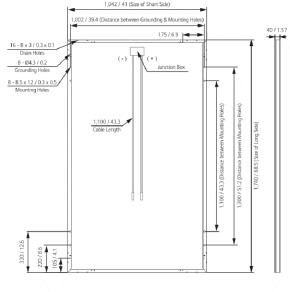
| Operating Temperature | [°C] | -40 ~ +85 |
|-------------------------------|------|-----------|
| Maximum System Voltage | [V] | 1,000 |
| Maximum Series Fuse Rating | [A] | 20 |
| Mechanical Test Load* (Front) | [Pa] | 5,400 |
| Mechanical Test Load* (Rear) | [Pa] | 4,000 |

^{*} Based on IEC 61215-2: 2016 (Test Load = Design Load x Safety Factor(1.5)) * Mechanical Test Loads 6.000 Pa / 5.400 Pa based on IEC 61215: 2005

Packaging Configuration

| Jumber of Modules Per Pallet | [EA] | 25 |
|---|------|-----------------------|
| Jumber of Modules Per 40ft HQ Container | [EA] | 650 |
| ackaging Box Dimensions (L x W x H) | [mm] | 1,790 x 1,120 x 1,213 |
| ackaging Box Gross Weight | [kg] | 500 |

Dimensions (mm/inch)





LG Twin Towers, 128 Yeoui-daero, Yeongdeungpo-gu, Seoul 07336, Korea

Product specifications are subject to change without notice © 2021 LG Electronics, All rights reserved





SEPERMITTING@TITANSOLARPOWER.COM

(877) 997-7652

60cell

[:] Irradiance 800W/m², Ambient temperature 20°C, Wind speed 1m/s, Spectrum AM 1.5

Irradiance 1,000 W/m², Cell temperature 25°C, AM 1.5, Measure tolerance of Pmax : ±3%



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.) | |
| 17721 SS | Bolts + 4" Microflashing® + 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® + SS L-Foot (15) + Nuts (30) | |

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

4" Microflashing® provides more coverage **UL** Certified

RUIZ, VICTOR RESIDENCE

5



Patent #8448407

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



Asphalt Shingle

| 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

BOX QTY SCREW SIZE PN# 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

SOLAR POWER 10345 NATIONS FORD RD SUITE W, CHARLOTTE, NC 28273

SEPERMITTING@TITANSOLARPOWER.COM

(877) 997-7652

59 DOONBEG DRIVE, FUQUAY-VARINA, NC, 27526 LAT:35.494719, LON:-78.822908 TSP-69110

(21) LG355N1K-B6 (1) SOLAREDGE SE6000H-US 7.455 kW DC SYSTEM SIZE 6.000 kW AC SYSTEM SIZE

DATE: 3/18/2021

REV:A DRAWN BY: DH

EQUIPMENT SPECIFICATIONS

CrossRail 48-X

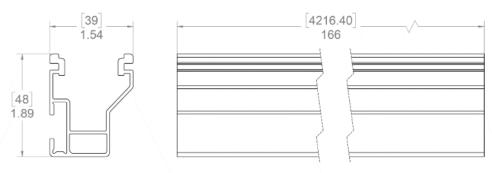


Mechanical Properties

| | 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



SEPERMITTING@TITANSOLARPOWER.COM

(877) 997-7652