

| ROOF MOUNT:           |                 |
|-----------------------|-----------------|
| MAKE                  | SOLAR ROOF HOOK |
| MODEL                 | L-FOOT          |
| MATERIAL              | ALUMINUM        |
| FASTENER              |                 |
| MAKE                  | SOLAR ROOF HOOK |
| MODEL                 | QUICKBOLT       |
| MATERIAL              | 304 SS          |
| SIZE                  | 5/16-18 X 7"    |
| GENERAL               |                 |
| WEIGHT                | 1 LBS           |
| FASTENERS PER MOUNT   | I PER MOUNT     |
| MAX. PULL-OUT FORCE   | 960 LBS.        |
| SAFETY FACTOR         | 2.0             |
| DESIGN PULL-OUT FORCE | 480 LBS.        |

\_\_DC/AC INVERTER AC DISCONNECT

LUTILITY METER

MCB PANEL

JUNCTION BOX

| # MODULES     | 28        |
|---------------|-----------|
| MOD. ATT. MID | 50        |
| MOD. ATT. END | 12        |
| ROOF MOUNTS   | 42        |
| RAIL LENGTH   | 195 FT.   |
| ARRAY AREA    | 586 SQFT. |
| ARRAY WEIGHT  | 1868 LBS. |
| AZIMUTH @ SN  | 176°      |
| TILT ANGLE    | 32°       |

| ARRAY WE        | EIGHT   | 1868 LBS.         |          | PITCH     |        |
|-----------------|---------|-------------------|----------|-----------|--------|
| AZIMUTH         | @ SN    | 176°              |          | DENSITY   | $\top$ |
| TILT ANG        | LE      | 32°               |          | DECKING:  |        |
|                 |         |                   |          | TYPE      | T      |
|                 | PV MC   | DDULES            |          | MATERIAL  |        |
| MAKE            | TRINA   |                   |          | THICKNESS |        |
| MODEL           | TSM-DI  | DIAA (II) PERC MO | ONC      | WEIGHT    |        |
| WIDTH           | 39.1"   |                   |          | ROOFING:  |        |
| LENGTH          | 77*     |                   |          | TYPE      | T      |
| THICKNESS 1.57" |         |                   | MATERIAL |           |        |
| WEIGHT          | 57.3 LE | s                 |          | WEIGHT    |        |

| MOU      | NTING RAILS   |
|----------|---------------|
| 1AKE     | UNIRAC        |
| 10DEL    | SM STANDARD   |
| MATERIAL | ALUMINUM      |
| WEIGHT   | 1.25 LBS./FT. |
| SPACING  | 34 IN.        |

| ROOF           | LOADING          |
|----------------|------------------|
| DEAD LOAD:     |                  |
| ROOFING        | 3.9 LBS./SQFT.   |
| PV ARRAY       | 2.8 LBS./SQFT.   |
| TOTAL          | 6.7 LBS./SQFT.   |
| WIND LOAD:     |                  |
| UPLIFT ZONE I  | -24.6 LBS./SQFT. |
| UPLIFT ZONE 2  | -29.0 LBS./SQFT. |
| UPLIFT ZONE 3  | -29.0 LBS./SQFT. |
| DOWNWARD       | 23.0 LBS./SQFT.  |
| FASTENER LOAD: |                  |
| UPLIFT ZONE I  | -474 LBS.        |
| UPLIFT ZONE 2  | -372 LBS.        |
| UPLIFT ZONE 3  | -186 LBS.        |
| DOWNWARD       | 321 LBS.         |

ROOF SUMMARY

1RUSSES SOUTHERN PINE #2 2" X 4" 24" o.c. 10'-4"

8 / 12 30 LBS./CU.FT OSB WOOD COMPOSITE

1.6 LBS./SQFT.

ARCH SHINGLE ASPHALT

2.3 LBS./SQFT.

STRUCTURE

MATERIAL SIZE SPACING EFF. SPAN

ROOF ZONES:

ALL ZONES ZONE 1 ZONE 2 ZONE 3

MAX. OVERHANG = 16\* MAX. FASTENER SPAN ZONE I = 72\* MAX. FASTENER SPAN ZONE 2 = 48\* MAX. FASTENER SPAN ZONE 3 = 24\*

#### STATEMENT OF STRUCTURAL COMPLIANCE

THE EXISTING ROOF STRUCTURE HAS BEEN DESIGNED TO SUPPORT THE ADDITIONAL LOADS OF THE PURPOSED PV SYSTEM. IN ADDITION, THE RACKING AND FASTENING SYSTEM SHALL BE CAPABLE OF SECURING THE SYSTEM TO THE STRUCTURE UNDER DESIGN CONDITIONS WHEN INSTALLED PROPERLY AND IN ACCORDANCE WITH THE RACKING AND FASTENING ARRANGEMENT DETAILED WITHIN THESE DRAWINGS.

ANDREW W. KING. PE

TITLE \_\_PROFESSIONAL ENGINEER

ENGINEER: MODEL ENERGY

300 FAYETTEVILLE ST #1430 RALEIGH, NC 27602 919-274-9905

MODELENERGY.COM P-1194

JOB TITLE:

NEW SOLAR PV SYSTEM 10.08 kW DC INPUT 10.00 kW AC EXPORT Brandon Voytek 44 Seabiscuit Ct LILLINGTON, NC 27546

CLIENT:



ISSUED FOR: DATE: PERMIT 8/08/18

SITE & STRUCTURAL INFORMATION

SITE & STRUCTURAL PLAN

PV MODULE (TYP.)

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

| PV                | MODULES                  |  |  |
|-------------------|--------------------------|--|--|
| MAKE              | TRINA                    |  |  |
| MODEL             | TSM-DDI4A (II) PERC MONO |  |  |
| TECHNOLOGY        | MONOCRYST.               |  |  |
| NOM. POWER (PNOM) | 360 WATTS                |  |  |
| NOM. VOLT. (VMP)  | 38.9 VOLTS               |  |  |
| O.C. VOLT. (Voc)  | 47.2 VOLTS               |  |  |
| MAX. SYS. VOLT.   | 1000 V (UL)              |  |  |
| TEMP. COEF. (Voc) | -0.137 %/°C              |  |  |
| NOM. CURR. (IMP)  | 9.26 AMPS                |  |  |
| S.C. CURR. (Isc)  | 9.79 AMPS                |  |  |
| MAX. SERIES FUSE  | 20 AMPS                  |  |  |

|     |      |         |            |            | C    | ONDU    | CTOR SO   | CHEDULE    |      |      |             |          |       |
|-----|------|---------|------------|------------|------|---------|-----------|------------|------|------|-------------|----------|-------|
| mad | CUR  | RENT CA | RRYING CO. | NDUCTORS   |      | GROUND. | ING CONDU | CTORS      |      | CONT | DUIT/RACEW/ | 1 Y      | NOTES |
| TAG | QTY. | SIZE    | MATERIAL   | INSULATION | QTY. | SIZE    | MATERIAL  | INSULATION | QTY. | SIZE | MATERIAL    | LOCATION | NOTES |
| CI  | 4    | 10 AWG  | COPPER     | PV WIRE    | - 1  | 6 AWG   | COPPER    | BARE       | -    |      | -           | FREE AIR | - 1   |
| C2  | 4    | 10 AWG  | COPPER     | THWN-2     | 1    | 10 AWG  | COPPER    | THWN-2     | 1    | 1/2" | EMT         | EXT      | 2.4   |
| C3  | 3    | 6 AWG   | COPPER     | THWN       | - 1  | 10 AWG  | COPPER    | THWN       | 1    | 3/4" | EMT         | EXT      | 2.4   |
| C4  | 3    | 6 AWG   | COPPER     | THWN       |      |         | -         |            | 1    | 3/4" | EMT         | EXT      | 2.4   |
| XC  | -    |         | -          |            |      | -       | -         | -          | -    | -    | -           | -        | 3     |

- MANUFACTURER PROVIDED, UL LISTED WIRING HARNESS FOR USE ON EXPOSED ROOFS
- CONDUIT SIZE SHOWN IS CODE MINIMUM. LARGER SIZES ARE ALLOWED.
- EXISTING CONDUCTORS, FIELD VERIFY
  EQUIPMENT TERMINAL RATING SHALL BE A MINIMUM OF 75°C AT BOTH END OF CONDUCTOR

| MODULE (    | PTIMIZER      |  |  |  |
|-------------|---------------|--|--|--|
| MAKE        | SOLAREDGE     |  |  |  |
| MODEL       | P400          |  |  |  |
| DC INPUT:   |               |  |  |  |
| NOM. POWER  | 400 WATTS     |  |  |  |
| VOLT. RANGE | 8-80          |  |  |  |
| MAX. CURR.  | 10.0 AMPS     |  |  |  |
| DC OUTPUT:  |               |  |  |  |
| NOM, POWER  | 400 WATTS     |  |  |  |
| MAX. VOLT.  | 60 VOLTS      |  |  |  |
| MAX. CURR.  | 15 AMPS       |  |  |  |
| MIN. STRING | 8 OPTIMIZERS  |  |  |  |
| MAX. STRING | 25 OPTIMIZERS |  |  |  |
| MAX. POWER  | 5250 WATTS    |  |  |  |

| JUNCT        | TON BOX   |
|--------------|-----------|
| MAKE         | SOLADECK  |
| MODEL        | 0783-3R   |
| PRO. RATING  | NEMA 3R   |
| VOLT. RATING | 600 VOLTS |
| AMP RATING   | 120 AMPS  |
| UL LISTING   | UL 50     |

| DC/AC           | INVERTER         |
|-----------------|------------------|
| MAKE            | SOLAREDGE        |
| MODEL           | SEI0000H-US      |
| TECHNOLOGY      | TRANSFORMER-LESS |
| DC INPUT:       |                  |
| MAX. POWER      | 15500 WATTS      |
| VOLT. RANGE     | 380-480 VOLTS    |
| NOM. VOLT.      | 400 VOLTS        |
| MAX, CURRENT    | 27 AMPS          |
| STRING INPUTS   | 3 STRINGS        |
| AC OUTPUT:      |                  |
| NOM. POWER      | 10000 WATTS      |
| NOM, VOLT.      | 240 VOLTS        |
| MAX, POWER      | 10000 WATTS      |
| MAX, CURR.      | 42 AMPS          |
| GFP (Y/N)       | YES              |
| GFCI (Y/N)      | YES              |
| AFCI (Y/N)      | YES              |
| DC DISC. (Y/N)  | YES              |
| RAPID SHUTDOWN  | YES              |
| FUSE RATING     | 15 AMPS          |
| PROTECT, RATING | NEMA 3R          |

| MAKE           | GENERIC   |
|----------------|-----------|
| MODEL          | N/A       |
| ENCL. RATING   | NEMA 3R   |
| VOLT. RATING   | 240 VOLTS |
| AMP RATING     | 60 AMPS   |
| UL LIST. (Y/N) | YES       |
| FUSED (Y/N)    | YES       |
| FUSE RATING    | 60 AMPS   |

- LOAD-BREAK RATED
- VISIBLE OPEN
- LOCKABLE IN OPEN POSITION INSTALL ADJACENT TO METER
- SERVICE RATED
- PROVIDE NEUTRAL/GROUND BONDING
- PROVIDE PLAQUE SHOWING SERVICE DISCONNECT LOCATIONS

| MAKE               | EATON     |
|--------------------|-----------|
| MODEL              | N/A       |
| ENCL. RATING       | NEMA 3R   |
| VOLT RATING        | 240 VOLTS |
| BUS RATING         | 200 AMPS  |
| UL LIST. (Y/N)     | YES       |
| MAIN BREAKER (Y/N) | YES       |
| BREAKER RATING     | 200 AMPS  |

BACK-FEED SOLAR OUTPUT VIA SUPPLY SIDE TAP INSIDE OF MCB PANEL.



MODEL ENERGY

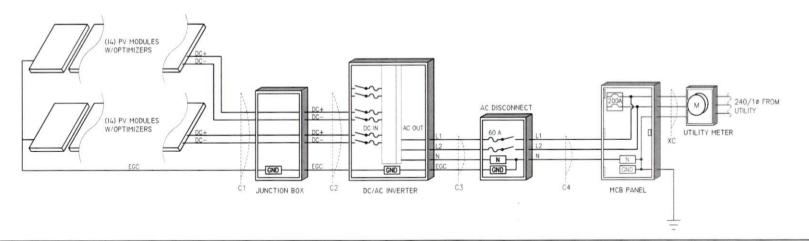
300 FAYETTEVILLE ST #1430 RALEIGH: NC 27602 919-274-9905 MODELENERGY.COM

ENGINEER:



| 01          | _       |
|-------------|---------|
| ISSUED FOR: | DATE:   |
| PERMIT      | 8/08/18 |
|             |         |

ELECTRICAL INFORMATION



#### PHOTOVOLTAIC ARRAY AC DISCONNECT

MAXIMUM OPERATING AC VOLTAGE: 240V MAXIMUM OPERATING CURRENT: 42 AMPS

PLACE ON COVER OF AC DISCONNECT SWITCH

# WARNING! ELECTRIC SHOCK HAZARD! DO NOT TOUCH TERMINALS!

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

PLACE ON JUNCTION BOX

#### WARNING!

PHOTOVOLTAIC POWER SOURCE

PLACE ON DC CONDUIT

#### WARNING! ELECTRIC SHOCK HAZARD! DO NOT TOUCH TERMINALS!

DUAL POWER SOURCE. PHOTOVOLTAIC SYSTEM IS SECONDARD POWER SOURCE. TERMINALS ON BOTH THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION.

PLACE ON MCB PANEL

### WARNING! INVERTER OUTPUT CONNECTION:

DO NOT RELOCATE THIS OVER-CURRENT DEVICE

LABEL FOR PV INPUT BREAKER

## PHOTOVOLTAIC SYSTEM EQUIPPED WITH RAPID SHUTDOWN

RAPID SHUTDOWN LABEL

# WARNING! ELECTRIC SHOCK HAZARD. THE DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED.

PLACE ON JUNCTION BOXES, COMBINER BOXES, DISCONNECTS AND EQUIPMENT THAT ARE CONNECTED TO UNGROUNDED CIRCUITS.

#### WARNING! ELECTRIC SHOCK HAZARD! DO NOT TOUCH TERMINALS!

TERMINALS ON BOTH THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION. THE DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED.

#### PHOTOVOLTAIC POWER SOURCE

OPERATING AC VOLTAGE: 240V
MAX OPERATING AC OUTPUT CURRENT: 42 AMPS

#### PHOTOVOLTAIC ARRAY DC DISCONNECT

OPERATING DC VOLTAGE: 380 VOLTS
OPERATING CURRENT: 26.5 AMPS
MAX SYSTEM VOLTAGE: 480 VOLTS
SHORT-CIRCUIT CURRENT: 30 AMPS

PLACE ON THE COVER OF INVERTER/DC DISCONNECT SWITCH

#### EQUIPMENT LABEL NOTES

- LABELS SHALL HAVE A RED BACKGROUND COLOR WITH WHITE LETTERING, TEXT SHALL BE IN ALL CAPITAL LETTERS AND NOT BE BOLD FONT
- LABEL MATERIAL SHALL BE SUITABLE FOR THE EQUIPMENT ENVIRONMENT
- CONDUIT SHALL BE MARKED WITH REQUIRED LABEL EVERY 10 FEET

ENGINEER:



MODEL ENERGY

300 FAYETTEVILLE ST #1430 RALEIGH, NC 27602 919-274-9905 MODELENERGY.COM

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NEW SOLAR PV SYSTEM 10.08 kW DC INPUT 10.00 kW AC EXPORT

Brandon Voy 44 Seabiscuit

CLIENT:



ISSUED FOR: DATE:
PERMIT 8/08/18

EQUIPMENT LABELS

PV4.1

\_\_\_\_\_

THE

# TALMAX prust

FRAMED 72-CELL MODULE(1500V)



MONOCRYSTALLINE MODULE

340-375W

**POWER OUTPUT RANGE** 

19.3%

**MAXIMUM EFFICIENCY** 

## 0~+5W

POSITIVE POWER TOLERANCE

Founded in 1997, Trina Solar is the world's leading comprehensive solutions provider for solar energy, we believe close cooperation with our partners is critical to success. Trina Solar now distributes its PV products to over 60 countries all over the world. Trina is able to provide exceptional service to each customer in each market and supplement our innovative, reliable products with the backing of Trina as a strong, bankable partner. We are committed to building strategic, mutually beneficial collaboration with installers, developers, distributors and other partners.

## Comprehensive Products And System Certificates

IEC61215/IEC61730/UL1703/IEC61701/IEC62716
ISO 9001: Quality Management System
ISO 14001: Environmental Management System
ISO14064: Greenhouse gases Emissions Verification
OHSAS 18001: Occupation Health and Safety
Management System











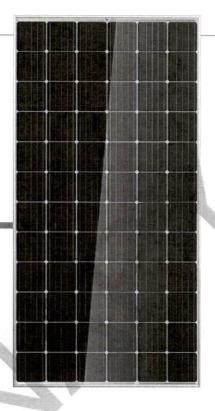














#### Ideal for large scale installations

- Reduce BOS cost by connecting more modules in a string
- 1500V UL/1500V IEC certified



#### Maximize limited space with top-end efficiency

- Up to 193 W/m² power density
- Low thermal coefficients for greater energy production at high operating temperatures



#### Highly reliable due to stringent quality control

- Over 30 in-house tests (UV, TC, HF, and many more)
- In-house testing goes well beyond certification requirements
- 100% EL double inspection



#### Certified to withstand the most challenging environmental conditions

- 2400 Pa wind load
- 5400 Pa snow load

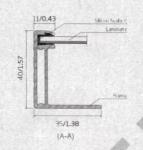




POWER RANGE

**PRODUCTS** 

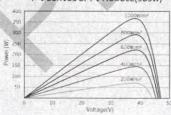
# TSM-DE14A(II) STD MONO TSM-DE14A(II) PERC MONO 340-350W 355-375W DIMENSIONS OF PV MODULE(mm/inches) 947/37,3 1960/77.2 992/39.1 Back View 40/1.57



#### I-V CURVES OF PV MODULE(365W)



#### P-V CURVES OF PV MODULE(365W)



#### **ELECTRICAL DATA (STC)**

|  | Lin in supplied |      |      |      | No. of Concession, Name of Street, or other |      | La companya de la companya della companya della companya de la companya della com | Lancing Company of the |
|--|-----------------|------|------|------|---|------|--|------------------------|
| Peak Power Watts-PMAX (Wp)*                | 340             | 345  | 350  | 355  | 360   | 365  | 370  | 375                    |
| Power Output Tolerance-P <sub>MX</sub> (W) |                 |      |      | 0~+5 |   |      |  |                        |
| Maximum Power Voltage-View (V)             | 38.2            | 38.5 | 38.7 | 38.8 | 39.0  | 39.3 | 39.7   | 40.0                   |
| Maximum Power Current-Irep (A)             | 8.90            | 8.96 | 9.04 | 9.14 | 9.24  | 9.30 | 9.33   | 9.37                   |
| Open Circuit Voltage-Voc (V)               | 46.2            | 46.7 | 47.0 | 47.4 | 47.7  | 48.0 | 48.3   | 48.5                   |
| Short Circuit Current-Isc (A)              | 9.50            | 9.55 | 9.60 | 9.65 | 9.70  | 9.77 | 9.83   | 9.88                   |
| Module Efficiency nm (%)                   | 17.5            | 17.7 | 18.0 | 18.3 | 18.5  | 18.8 | 19.0   | 19.3                   |

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5.
\*Measuring tolerance: ±3%.

#### ELECTRICAL DATA (NOCT)

| 253  | 257                  | 261                                 | 264  | 268   | 272  | 276   | 279  |   |
|------|----------------------|-------------------------------------|--|---|--|---|--|---|
| 35.4 | 35.7                 | 35.9                                | 36.0   | 36.2  | 36.4   | 36.8  | 37.1   |   |
| 7.15 | 7.20                 | 7.26                                | 7.34   | 7,42  | 7.47   | 7.50  | 7.53   |   |
| 42.9 | 43.4                 | 43.7                                | 44.1   | 44.3  | 44.6   | 44.9  | 45.1   |   |
| 7.67 | 7.71                 | 7.75                                | 7.79   | 7.83  | 7.89   | 7.94  | 7.98   |   |
|      | 35.4<br>7.15<br>42.9 | 35.4 35.7<br>7.15 7.20<br>42.9 43.4 | 35.4 35.7 35.9<br>7.15 7.20 7.26<br>42.9 43.4 43.7 | 35.4 35.7 35.9 36.0<br>7.15 7.20 7.26 7.34<br>42.9 43.4 43.7 44.1 | 35.4     35.7     35.9     36.0     36.2       7.15     7.20     7.26     7.34     7.42       42.9     43.4     43.7     44.1     44.3 | 35.4     35.7     35.9     36.0     36.2     36.4       7.15     7.20     7.26     7.34     7.42     7.47       42.9     43.4     43.7     44.1     44.3     44.6 | 35.4 35.7 35.9 36.0 36.2 36.4 36.8<br>7.15 7.20 7.26 7.34 7.42 7.47 7.50<br>42.9 43.4 43.7 44.1 44.3 44.6 44.9 | 35.4 35.7 35.9 36.0 36.2 36.4 36.8 37.1 7.15 7.20 7.26 7.34 7.42 7.47 7.50 7.53 42.9 43.4 43.7 44.1 44.3 44.6 44.9 45.1 |

NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

#### MECHANICAL DATA

| MECHANICAL DATA   |  |
|-------------------|--|
| Solar Cells       | Monocrystalline 156.75 × 156.75 mm (6 inches)                      |
| Cell Orientation  | 72 cells (6 × 12)  |
| Module Dimensions | 1960 × 992 × 40 mm (77.2 × 39.1 × 1.57 inches)                     |
| Weight            | 26.0 kg (57.3 lb) with 4.0 mm glass; 22.5 kg (49.6 lb) with 3.2 mm |
| Glass             | glass 4.0 mm (0.16 inches) for PERC Mono; 3.2 mm (0.13 inches) for |
|                   | Std Mono, High Transmission, AR Coated Tempered Glass              |
| Backsheet         | White  |
| Frame             | Silver Anodized Aluminium Alloy                                    |
| J-Box             | IP 67 or IP 68 rated   |
| Cables            | Photovoltaic Technology Cable 4.0mm° (0.006 inches°),              |
|                   | 1200 mm (47.2 inches)  |
| Connector         | Trina TS4  |
|                   |  |

Type 1 or Type 2

#### **TEMPERATURE RATINGS**

Fire Type

| NOCT(Nominal Operating Cell Temperature) | 44°C (±2°C) |
|--|-------------|
| Temperature Coefficient of PMAX          | -0.39%/℃    |
| Temperature Coefficient of Voc           | -0.29%/°C   |
| Temperature Coefficient of Isc           | 0.05%/°C    |

#### MAXIMUM RATINGS

| Operational Temperature | -40~+85°C         |
|-------------------------|-------------------|
| Maximum System Voltage  | 1500V DC (IEC)    |
|                         | 1500V DC (UL)     |
| Max Series Fuse Rating  | 15A (Power ≤350W) |
|                         | 20A (Power ≥355W) |

(DO NOT connect Fuse in Combiner Box with two or more strings in parallel connection)

#### WARRANTY

10 year Product Workmanship Warranty 25 year Linear Power Warranty

(Please refer to product warranty for details)

#### PACKAGING CONFIGURATION

Modules per box: 27 pieces Modules per 40' container: 648 pieces



# NVERTERS

# solaredge

# **Single Phase Inverters**

for North America

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



#### Optimized installation with HD-Wave technology

- Specifically designed to work with power optimizers
- Record-breaking efficiency
- 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
- UL1741 SA certified, for CPUC Rule 21 grid compliance
- Extremely small
- High reliability without any electrolytic capacitors
- Built-in module-level monitoring
- Outdoor and indoor installation
- Optional: Revenue grade data, ANSI C12.20 Class 0.5 (0.5% accuracy)





# Single Phase Inverters for North America

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

|                                      | SE3000H-US  | SE3800H-US  | SE5000H-US           | SE6000H-US              | SE7600H-US                            | SE10000H-US  | (Fig. 6) |  |  |  |  |
|--------------------------------------|---|---|----------------------|-------------------------|---------------------------------------|--------------|----------|--|--|--|--|
| OUTPUT                               |   |   |                      |                         |                                       |              | a later  |  |  |  |  |
| Rated AC Power Output                | 3000  | 3800  | 5000                 | 6000                    | 7600                                  | 10000        | VA       |  |  |  |  |
| Max. AC Power Output                 | 3000  | 3800  | 5000                 | 6000                    | 7600                                  | 10000        | VA       |  |  |  |  |
| AC Output Voltage MinNom             | /   | /   | /                    | /                       | 1                                     | 1            |          |  |  |  |  |
| Max. (211 - 240 - 264)               | <b>v</b>  |   |                      |                         | · · · · · · · · · · · · · · · · · · · | · ·          | Vac      |  |  |  |  |
| AC Frequency (Nominal)               |   |   | 59.3 - 6             | 0 - 60.5 <sup>(1)</sup> |                                       |              | Hz       |  |  |  |  |
| Maximum Continuous Output            | 12.5  | 16  | 21                   | 25                      | 32                                    | 42           | Α        |  |  |  |  |
| Current@240V                         | 12.5  |   | 21                   | 23                      | 32                                    | 42           | A        |  |  |  |  |
| GFDI Threshold                       |   |   |                      | 1                       |                                       |              | Α        |  |  |  |  |
| Utility Monitoring, Islanding        |   |   |                      |                         |                                       |              |          |  |  |  |  |
| Protection, Country Configurable     |   |   | Y                    | es                      |                                       |              |          |  |  |  |  |
| Thresholds                           |   |   |                      |                         |                                       |              |          |  |  |  |  |
| INPUT                                |   |   |                      |                         |                                       |              |          |  |  |  |  |
| Maximum DC Power                     | 4650  | 5900  | 7750                 | 9300                    | 11800                                 | 15500        | W        |  |  |  |  |
| Transformer-less, Ungrounded         |   |   | ΥΥ                   | es                      |                                       |              |          |  |  |  |  |
| Maximum Input Voltage                |   | 480   |                      |                         |                                       |              |          |  |  |  |  |
| Nominal DC Input Voltage             |   |   | 80                   |                         | 4                                     | 00           | Vdc      |  |  |  |  |
| Maximum Input Current@240V           | 8.5   | 10.5  | 13.5                 | 16.5                    | 20                                    | 27           | Adc      |  |  |  |  |
| Max. Input Short Circuit Current     |   | 45  |                      |                         |                                       |              |          |  |  |  |  |
| Reverse-Polarity Protection          |   |   | Υ                    | es                      |                                       |              |          |  |  |  |  |
| Ground-Fault Isolation Detection     |   | 600kΩ Sensitivity                                     |                      |                         |                                       |              |          |  |  |  |  |
| Maximum Inverter Efficiency          | 99  |   |                      |                         |                                       |              |          |  |  |  |  |
| CEC Weighted Efficiency              |   | 99  |                      |                         |                                       |              |          |  |  |  |  |
| Nighttime Power Consumption          |   | <2.5  |                      |                         |                                       |              |          |  |  |  |  |
| ADDITIONAL FEATURES                  |   |   |                      |                         |                                       |              | TANK I   |  |  |  |  |
| Supported Communication              |   | 20120   | Ethernet, ZigBee (c  | entional) Callular I    | ational)                              |              |          |  |  |  |  |
| Interfaces                           |   | N3403,  |                      |                         | puonai)                               |              |          |  |  |  |  |
| Revenue Grade Data, ANSI C12.20      |   |   | Opti                 | onal <sup>(2)</sup>     |                                       |              |          |  |  |  |  |
| Rapid Shutdown - NEC 2014 and        |   | Autom   | atic Rapid Shutdow   | n unon AC Grid Dis      | connect                               |              | 1        |  |  |  |  |
| 2017 690.12                          |   | Autom   | acie Napia Silataow  | ii apoii Ac dila Dis    | connect                               |              |          |  |  |  |  |
| STANDARD COMPLIANCE                  |   |   |                      |                         | <b>医性性性小孩性</b>                        |              |          |  |  |  |  |
| Safety                               | U   | L1741, UL1741 SA,                                     | UL1699B, CSA C22.    |                         | cording to T.I.L. M-                  | 07           |          |  |  |  |  |
| Grid Connection Standards            |   |   |                      | 21, Rule 14 (HI)        |                                       |              |          |  |  |  |  |
| Emissions                            |   |   | FCC Part             | 15 Class B              |                                       |              |          |  |  |  |  |
| INSTALLATION SPECIFICATIONS          |   |   |                      |                         |                                       |              |          |  |  |  |  |
| AC Output Conduit Size / AWG         |   |   | 3/4" minimu          | m / 20-4 AWG            |                                       |              |          |  |  |  |  |
| Range                                |   |   |                      |                         |                                       |              |          |  |  |  |  |
| DC Input Conduit Size / # of Strings |   | 2/48  |                      |                         |                                       | 3/4" minimum |          |  |  |  |  |
| / AWG Range                          |   | 3/4" minimum / 1-2 strings / 14-6 AWG / 1-3 strings / |                      |                         |                                       |              |          |  |  |  |  |
| •••••                                |   |   |                      |                         |                                       | 14-6 AWG     |          |  |  |  |  |
| Dimensions with Safety Switch        |   | 21.3 x 14.6 x   |                      |                         |                                       |              |          |  |  |  |  |
| (HxWxD)                              | 17.7 x 14.6 x 6.8 / 450 x 370 x 174 7.3 / 540 x 370   |   |                      |                         |                                       |              | in / mr  |  |  |  |  |
| Weight with Safety Switch            |   | / 10  | 25.1 / 1.1 4         | 1                       |                                       | x 185        | :        |  |  |  |  |
| Noise                                |   | / 10  | 25.1 / 11.4          | 26.2                    | / 11.9                                | 38.8 / 17.6  | lb/kg    |  |  |  |  |
|                                      | < 25 <50  |   |                      |                         |                                       |              | dBA      |  |  |  |  |
| Cooling                              |   | Natural Convection Natural convection                 |                      |                         |                                       |              |          |  |  |  |  |
| Operating Temperature Range          | -13 to +140 / -25 to +60 <sup>(3)</sup> (-40°F / -40°C option) <sup>(4)</sup> NEMA 3R (Inverter with Safety Switch) |   |                      |                         |                                       |              |          |  |  |  |  |
| Protection Rating                    |   |   | INCINIA 3K (Inverter | with Safety Switch      | l                                     |              |          |  |  |  |  |

(1) For other regional settings please contact SolarEdge support
(2) Revenue grade inverter P/N: SExxxxH-US000NNC2
(3) For power de-rating information refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf
(4) \_40 version P/N: SExxxxH-US000NNU4



## Google Maps

#### 108 E Front St, Lillington, NC 27546 to 44 Seabiscuit Drive 13.6 miles, 19 min Ct, Lillington, NC 27546

