Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 10/28/15

INVE

# SolarEdge Single Phase Inverters

## For North America

SE3000A-US / SE3800A-US / SE5000A-US / SE6000A-US / SE7600A-US / SE10000A-US / SE11400A-US

### The best choice for SolarEdge enabled systems

- Integrated arc fault protection (Type 1) for NEC 2011 690.11 compliance
- Superior efficiency (98%)
- Small, lightweight and easy to install on provided bracket
- Built-in module-level monitoring
- Internet connection through Ethernet or Wireless
- Outdoor and indoor installation
- Fixed voltage inverter, DC/AC conversion only
- Pre-assembled Safety Switch for faster installation
- Optional – revenue grade data, ANSI C12.1

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# Single Phase Inverters for North A

SE3000A-US / SE3800A-US / SE5000A-US / SE6000A-US / SE7600A-US / SE10000A-US / SE11400A-US

RESURGAM CITY OF PORTLAND, MAINE

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| | SE3000A-US | SE3800A-US | SE5000A-US | SE6000A-US | SE7600A-US | SE10000A- | | |
|---|---|---|---|---|---|---|---|---|
| **OUTPUT** | | | | | | | | |
| Nominal AC Power Output | 3000 | 3800 | 5000 | 6000 | 7600 | 9980 @ 20<br>10000 @24 | | |
| Max. AC Power Output | 3300 | 4150 | 5400 @ 208V<br>5450 @240V | 6000 | 8350 | 10800 @ 208V<br>10950 @240V | 12000 | VA |
| AC Output Voltage Min.-Nom.-Max.[1]<br>183 - 208 - 229 Vac | - | - | ✓ | - | - | ✓ | - | |
| AC Output Voltage Min.-Nom.-Max.[1]<br>211 - 240 - 264 Vac | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| AC Frequency Min.-Nom.-Max.[1] | 59.3 - 60 - 60.5 (with HI country setting 57 - 60 - 60.5) | | | | | | | Hz |
| Max. Continuous Output Current | 12.5 | 16 | 24 @ 208V<br>21 @ 240V | 25 | 32 | 48 @ 208V<br>42 @ 240V | 47.5 | A |
| GFDI | 1 | | | | | | | A |
| Utility Monitoring, Islanding Protection, Country Configurable Thresholds | Yes | | | | | | | Yes |
| **INPUT** | | | | | | | | |
| Recommended Max. DC Power[2] (STC) | 3750 | 4750 | 6250 | 7500 | 9500 | 12400 | 14250 | W |
| Transformer-less, Ungrounded | Yes | | | | | | | |
| Max. Input Voltage | 500 | | | | | | | Vdc |
| Nom. DC Input Voltage | 325 @ 208V / 350 @ 240V | | | | | | | Vdc |
| Max. Input Current[3] | 9.5 | 13 | 16.5 @ 208V<br>15.5 @ 240V | 18 | 23 | 33 @ 208V<br>30.5 @ 240V | 34.5 | Adc |
| Max. Input Short Circuit Current | 45 | | | | | | | Adc |
| Reverse-Polarity Protection | Yes | | | | | | | |
| Ground-Fault Isolation Detection | 600kΩ Sensitivity | | | | | | | |
| Maximum Inverter Efficiency | 97.7 | 98.2 | 98.3 | 98.3 | 98 | 98 | 98 | % |
| CEC Weighted Efficiency | 97.5 | 98 | 97.5 @ 208V<br>98 @ 240V | 97.5 | 97.5 | 97 @ 208V<br>97.5 @ 240V | 97.5 | % |
| Nighttime Power Consumption | < 2.5 | | | | < 4 | | | W |
| **ADDITIONAL FEATURES** | | | | | | | | |
| Supported Communication Interfaces | RS485, RS232, Ethernet, ZigBee (optional) | | | | | | | |
| Revenue Grade Data, ANSI C12.1 | Optional[4] | | | | | | | |
| Rapid Shutdown – NEC 2014 690.12 | Functionality enabled when SolarEdge rapid shutdown kit is installed[5] | | | | | | | |
| **STANDARD COMPLIANCE** | | | | | | | | |
| Safety | UL1741, UL1699B, UL1998 , CSA 22.2 | | | | | | | |
| Grid Connection Standards | IEEE1547 | | | | | | | |
| Emissions | FCC part15 class B | | | | | | | |
| **INSTALLATION SPECIFICATIONS** | | | | | | | | |
| AC output conduit size / AWG range | 3/4" minimum / 16-6 AWG | | | | 3/4" minimum / 8-3 AWG | | | |
| DC input conduit size / # of strings / AWG range | 3/4" minimum / 1-2 strings / 16-6 AWG | | | | 3/4" minimum / 1-2 strings / 14-6 AWG | | | |
| Dimensions with Safety Switch (HxWxD) | 30.5 x 12.5 x 7 /<br>775 x 315 x 172 | | 30.5 x 12.5 x 7.5 /<br>775 x 315 x 191 | | 30.5 x 12.5 x 10.5 / 775 x 315 x 260 | | | in / mm |
| Weight with Safety Switch | 51.2 / 23.2 | | 54.7 / 24.7 | | 88 .4 / 40.1 | | | lb / kg |
| Cooling | Natural Convection | | | | Fans (user replaceable) | | | |
| Noise | < 25 | | | | < 50 | | | dBA |
| Min.-Max. Operating Temperature Range | -13 to +140 / -25 to +60 (-40 to +60 version available[6]) | | | | | | | ˚F / ˚C |
| Protection Rating | NEMA 3R | | | | | | | |

(1) For other regional settings please contact SolarEdge support.
(2) Limited to 125% for locations where the yearly average high temperature is above 77˚F/25˚C and to 135% for locations where it is below 77˚F/25˚C. For detailed information, refer to http://www.solaredge.us/files/pdfs/inverter_dc_oversizing_guide.pdf
(3) A higher current source may be used; the inverter will limit its input current to the values stated.
(4) Revenue grade inverter P/N: SExxxxA-US000NNR2
(5) Rapid shutdown kit P/N: SE1000-RSD-S1
(6) -40 version P/N: SExxxxA-US000NNU4

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