Inspections Division
Date: 06/24/16

INVERTER

# 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 for NEC 2011 690.11 compliance
- Rapid shutdown for NEC 2014 690.12
- 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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| | SE3000A-US | SE3800A-US | SE5000A-US | SE6000A-US | SE7600A-US | SE10000A- US | SE11400A-US | |
|---|---|---|---|---|---|---|---|---|
| **OUTPUT** | | | | | | | | |
| Nominal AC Power Output | 3000 | 3800 | 5000 | 6000 | 7600 | 9980 @ 208V<br>10000 @240V | 11400 | VA |
| 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 | | | | | | | Hz |
| Max. Continuous Output Current | 12.5 | 16 | 24 @ 208V<br>21 @ 240V | 25 | 32 | 48 @ 208V<br>42 @ 240V | 47.5 | A |
| GFDI Threshold | 1 | | | | | | | A |
| Utility Monitoring, Islanding Protection, Country Configurable Thresholds | Yes | | | | | | | Yes |
| **INPUT** | | | | | | | | |
| Maximum DC Power (STC) | 4050 | 5100 | 6750 | 8100 | 10250 | 13500 | 15350 | W |
| Transformer-less, Ungrounded | Yes | | | | | | | |
| Max. Input Voltage | 500 | | | | | | | Vdc |
| Nom. DC Input Voltage | 325 @ 208V / 350 @ 240V | | | | | | | Vdc |
| Max. Input Current[2] | 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 @ 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[3] | | | | | | | |
| Rapid Shutdown – NEC 2014 690.12 | Yes | | | | | | | |
| **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 / 1-3 strings / 14-6 AWG | | |
| Dimensions with Safety Switch (HxWxD) | 30.5 x 12.5 x 7.2 / 775 x 315 x 184 | | | | | 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 | | | | Natural convection and internal fan (user replaceable) | Fans (user replaceable) | | |
| Noise | < 25 | | | | | < 50 | | dBA |
| Min.-Max. Operating Temperature Range | -13 to +140 / -25 to +60 (-40 to +60 version available[4]) | | | | | | | ˚F / ˚C |
| Protection Rating | NEMA 3R | | | | | | | |

(1) For other regional settings please contact SolarEdge support.
(2) A higher current source may be used; the inverter will limit its input current to the values stated.
(3) Revenue grade inverter P/N: SExxxxA-US000NNR2 (for 7600W inverter:SE7600A-US002NNR2).
(4) -40 version P/N: SExxxxA-US000NNU4 (for 7600W inverter:SE7600A-US002NNU4).

RoHS

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