



## SolarEdge Single Phase Inverters

For North America

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



INVERTERS

### The best choice for SolarEdge enabled systems

- Specifically designed to work with power optimizers
- Superior efficiency (98%)
- 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
- Small, lightweight and easy to install outdoors or indoors on provided bracket
- Built-in module-level monitoring
- Internet connection through Ethernet or Wireless
- Fixed voltage inverter for longer strings
- 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 |     |
|---------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------|----------------------------|------------|--------------------------------------------------------|---------------------------------------|-------------|-----|
| <b>OUTPUT</b>                                                             |                                                                               |            |                            |            |                                                        |                                       |             |     |
| 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. <sup>(1)</sup><br>183 - 208 - 229 Vac    | -                                                                             | -          | ✓                          | -          | -                                                      | ✓                                     | -           |     |
| AC Output Voltage Min.-Nom.-Max. <sup>(1)</sup><br>211 - 240 - 264 Vac    | ✓                                                                             | ✓          | ✓                          | ✓          | ✓                                                      | ✓                                     | ✓           |     |
| AC Frequency Min.-Nom.-Max. <sup>(1)</sup>                                | 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 |
| <b>INPUT</b>                                                              |                                                                               |            |                            |            |                                                        |                                       |             |     |
| Maximum DC Power (STC)                                                    | 4050                                                                          | 5100       | 6750                       | 8100       | 10250                                                  | 13500                                 | 15350       | W   |
| Transformer-less, Ungrounded                                              | Yes                                                                           |            |                            |            |                                                        |                                       |             |     |
| Max. Input Voltage                                                        | 500                                                                           |            |                            |            |                                                        |                                       |             |     |
| Nom. DC Input Voltage                                                     | 325 @ 208V / 350 @ 240V                                                       |            |                            |            |                                                        |                                       |             |     |
| Max. Input Current <sup>(2)</sup>                                         | 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                                                                            |            |                            |            |                                                        |                                       |             |     |
| Reverse-Polarity Protection                                               | Yes                                                                           |            |                            |            |                                                        |                                       |             |     |
| Ground-Fault Isolation Detection                                          | 600k $\Omega$ 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   |
| <b>ADDITIONAL FEATURES</b>                                                |                                                                               |            |                            |            |                                                        |                                       |             |     |
| Supported Communication Interfaces                                        | RS485, RS232, Ethernet, ZigBee (optional)                                     |            |                            |            |                                                        |                                       |             |     |
| Revenue Grade Data, ANSI C12.1                                            | Optional <sup>(3)</sup>                                                       |            |                            |            |                                                        |                                       |             |     |
| Rapid Shutdown - NEC 2014 and 2017 690.12                                 | Automatic Rapid Shutdown upon AC Grid Disconnect <sup>(5)</sup>               |            |                            |            |                                                        |                                       |             |     |
| <b>STANDARD COMPLIANCE</b>                                                |                                                                               |            |                            |            |                                                        |                                       |             |     |
| Safety                                                                    | UL1741, UL1741 SA, UL1699B, CSA C22.2, Canadian AFCI according to T.I.L. M-07 |            |                            |            |                                                        |                                       |             |     |
| Grid Connection Standards                                                 | IEEE1547, Rule 21, Rule 14 (HI)                                               |            |                            |            |                                                        |                                       |             |     |
| Emissions                                                                 | FCC part15 class B                                                            |            |                            |            |                                                        |                                       |             |     |
| <b>INSTALLATION SPECIFICATIONS</b>                                        |                                                                               |            |                            |            |                                                        |                                       |             |     |
| 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  |             |     |
| Weight with Safety Switch                                                 | 51.2 / 23.2                                                                   |            | 54.7 / 24.7                |            |                                                        | 88.4 / 40.1                           |             |     |
| Cooling                                                                   | Natural Convection                                                            |            |                            |            | Natural convection and internal fan (user replaceable) | Fans (user replaceable)               |             |     |
| Noise                                                                     | < 25                                                                          |            |                            |            |                                                        | < 50                                  |             |     |
| Min.-Max. Operating Temperature Range                                     | -13 to +140 / -25 to +60 (-40 to +60 version available <sup>(4)</sup> )       |            |                            |            |                                                        |                                       |             |     |
| Protection Rating                                                         | NEMA 3R                                                                       |            |                            |            |                                                        |                                       |             |     |

<sup>(1)</sup> For other regional settings please contact SolarEdge support.

<sup>(2)</sup> A higher current source may be used; the inverter will limit its input current to the values stated.

<sup>(3)</sup> Revenue grade inverter P/N: SExxxxA-US000NNR2 (for 7600W inverter:SE7600A-US002NNR2).

<sup>(4)</sup> -40 version P/N: SExxxxA-US000NNU4 (for 7600W inverter:SE7600A-US002NNU4).

<sup>(5)</sup> P/Ns SExxxxA-US0xxxxx have Manual Rapid Shutdown for NEC 2014 compliance (NEC 2017 compliance with outdoor installation)

