



## Single Phase Inverters

for North America

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

INVERTERS



### 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)





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|                                                                           | SE3000H-US                                                                    | SE3800H-US  | SE5000H-US  | SE6000H-US         | SE7600H-US | SE10000H-US                           |         |
|---------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------|-------------|--------------------|------------|---------------------------------------|---------|
| OUTPUT                                                                    |                                                                               |             |             |                    |            |                                       |         |
| 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 Min.-Nom.-Max. (211 - 240 - 264)                        | ✓                                                                             | ✓           | ✓           | ✓                  | ✓          | ✓                                     | Vac     |
| AC Frequency (Nominal)                                                    | 59.3 - 60 - 60.5 <sup>(1)</sup>                                               |             |             |                    |            |                                       | Hz      |
| Maximum Continuous Output Current@240V                                    | 12.5                                                                          | 16          | 21          | 25                 | 32         | 42                                    | A       |
| GFDI Threshold                                                            | 1                                                                             |             |             |                    |            |                                       | A       |
| Utility Monitoring, Islanding Protection, Country Configurable Thresholds | Yes                                                                           |             |             |                    |            |                                       |         |
| INPUT                                                                     |                                                                               |             |             |                    |            |                                       |         |
| Maximum DC Power                                                          | 4650                                                                          | 5900        | 7750        | 9300               | 11800      | 15500                                 | W       |
| Transformer-less, Ungrounded                                              | Yes                                                                           |             |             |                    |            |                                       |         |
| Maximum Input Voltage                                                     | 480                                                                           |             |             |                    |            |                                       | Vdc     |
| Nominal DC Input Voltage                                                  | 380                                                                           |             |             |                    |            |                                       | Vdc     |
| Maximum Input Current@240V                                                | 8.5                                                                           | 10.5        | 13.5        | 16.5               | 20         | 27                                    | Adc     |
| Max. Input Short Circuit Current                                          | 45                                                                            |             |             |                    |            |                                       | Adc     |
| Reverse-Polarity Protection                                               | Yes                                                                           |             |             |                    |            |                                       |         |
| Ground-Fault Isolation Detection                                          | 600k $\Omega$ Sensitivity                                                     |             |             |                    |            |                                       |         |
| Maximum Inverter Efficiency                                               | 99                                                                            | 99.2        |             |                    |            |                                       | %       |
| CEC Weighted Efficiency                                                   | 99                                                                            |             |             |                    |            |                                       | %       |
| Nighttime Power Consumption                                               | < 2.5                                                                         |             |             |                    |            |                                       | W       |
| ADDITIONAL FEATURES                                                       |                                                                               |             |             |                    |            |                                       |         |
| Supported Communication Interfaces                                        | RS485, Ethernet, ZigBee (optional), Cellular (optional)                       |             |             |                    |            |                                       |         |
| Revenue Grade Data, ANSI C12.20                                           | Optional <sup>(2)</sup>                                                       |             |             |                    |            |                                       |         |
| Rapid Shutdown - NEC 2014 and 2017 690.12                                 | Automatic Rapid Shutdown upon AC Grid Disconnect                              |             |             |                    |            |                                       |         |
| STANDARD COMPLIANCE                                                       |                                                                               |             |             |                    |            |                                       |         |
| 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 Part 15 Class B                                                           |             |             |                    |            |                                       |         |
| INSTALLATION SPECIFICATIONS                                               |                                                                               |             |             |                    |            |                                       |         |
| AC Output Conduit Size / AWG Range                                        | 3/4" minimum / 20-4 AWG                                                       |             |             |                    |            |                                       |         |
| DC Input Conduit Size / # of Strings / AWG Range                          | 3/4" minimum / 1-2 strings / 14-6 AWG                                         |             |             |                    |            | 3/4" minimum / 1-3 strings / 14-6 AWG |         |
| Dimensions with Safety Switch (HxWxD)                                     | 17.7 x 14.6 x 6.8 / 450 x 370 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                                                            |             |             | Natural convection |            |                                       |         |
| Operating Temperature Range                                               | -13 to +140 / -25 to +60 <sup>(3)</sup> (-40°F / -40°C option) <sup>(4)</sup> |             |             |                    |            |                                       | °F / °C |
| Protection Rating                                                         | NEMA 3R (Inverter with Safety Switch)                                         |             |             |                    |            |                                       |         |

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

<sup>(2)</sup> Revenue grade inverter P/N: SExxxxH-US000NNC2

<sup>(3)</sup> For power de-rating information refer to: <https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf>

<sup>(4)</sup> -40 version P/N: SExxxxH-US000NNU4



## RoHS