



## SolarEdge Single Phase Inverters

for North America

SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US /  
SE7600H-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 and easy to install outdoors or indoors
- High reliability without any electrolytic capacitors
- Built-in module-level monitoring
- 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   |         |
|---|---|-------------|-------------|------------|--|---------|
| <b>OUTPUT</b>   |   |             |             |            |  |         |
| Rated AC Power Output   | 3000  | 3800        | 5000        | 6000       | 7600   | VA      |
| Max. AC Power Output  | 3000  | 3800        | 5000        | 6000       | 7600   | VA      |
| AC Output Voltage Min.-Nom.-Max. (183 - 208 - 229)                        | -   | -           | ✓           | -          | -  | Vac     |
| 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 208V                                    | -   | -           | 24          | -          | -  | A       |
| Maximum Continuous Output Current 240V                                    | 12.5  | 16          | 21          | 25         | 32   | A       |
| GFDI Threshold  | 1   |             |             |            |  | A       |
| Utility Monitoring, Islanding Protection, Country Configurable Thresholds | Yes   |             |             |            |  |         |
| <b>INPUT</b>  |   |             |             |            |  |         |
| Maximum DC Power  | 4650  | 5900        | 7750        | 9300       | 11800  | W       |
| Transformer-less, Ungrounded  | Yes   |             |             |            |  |         |
| Maximum Input Voltage   | 480   |             |             |            |  | Vdc     |
| Nominal DC Input Voltage  | 380   |             |             |            | 400  | Vdc     |
| Maximum Input Current 208V <sup>(2)</sup>                                 | -   | -           | 13.5        | -          | -  | Adc     |
| Maximum Input Current 240V <sup>(2)</sup>                                 | 8.5   | 10.5        | 13.5        | 16.5       | 20   | 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       |
| <b>ADDITIONAL FEATURES</b>  |   |             |             |            |  |         |
| Supported Communication Interfaces  | RS485, Ethernet, ZigBee (optional), Cellular (optional)                       |             |             |            |  |         |
| Revenue Grade Data, ANSI C12.20   | Optional <sup>(3)</sup>   |             |             |            |  |         |
| Rapid Shutdown - NEC 2014 and 2017 690.12                                 | Automatic Rapid Shutdown upon AC Grid Disconnect                              |             |             |            |  |         |
| <b>STANDARD COMPLIANCE</b>  |   |             |             |            |  |         |
| Safety  | UL1741, UL1741 SA, UL1699B, CSA C22.2, Canadian AFCL according to T.I.L. M-07 |             |             |            |  |         |
| Grid Connection Standards   | IEEE1547, Rule 21, Rule 14 (HI)   |             |             |            |  |         |
| Emissions   | FCC Part 15 Class B   |             |             |            |  |         |
| <b>INSTALLATION SPECIFICATIONS</b>  |   |             |             |            |  |         |
| AC Output Conduit Size / AWG Range  | 0.75-1" Conduit / 14-6 AWG  |             |             |            |  |         |
| DC Input Conduit Size / # of Strings / AWG Range                          | 0.75-1" Conduit / 1-2 strings / 14-6 AWG                                      |             |             |            |  |         |
| Dimensions with Safety Switch (HxWxD)                                     | 17.7 x 14.6 x 6.8 / 450 x 370 x 174   |             |             |            |  | in / mm |
| Weight with Safety Switch   | 22 / 10   | 25.1 / 11.4 | 26.2 / 11.9 |            |  | lb / kg |
| Noise   | < 25  |             |             |            | < 50   | dBA     |
| Cooling   | Natural Convection  |             |             |            | Natural convection and internal fan (user replaceable) |         |
| Operating Temperature Range   | -13 to +140 / -25 to +60 <sup>(4)</sup> (-40°F / -40°C option) <sup>(5)</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> 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: SExxxH-US000N2

<sup>(4)</sup> Power de-rating from 50°C

<sup>(5)</sup> -40 version P/N: SExxxH-US000N4

