

# Single Phase Inverter with HD-Wave Technology

for North America

SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US /  
SE7600H-US / SE10000H-US / SE11400H-US



## Optimized installation with HD-Wave technology

- / Specifically designed to work with power optimizers
- / Record-breaking efficiency
- / Quick and easy inverter commissioning directly from a smartphone using the SolarEdge SetApp
- / 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
- / 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 | SE11400H-US                  |     |
|---|---------------------------------|----------------------------|------------|----------------------------|------------|-------------|------------------------------|-----|
| APPLICABLE TO INVERTERS WITH PART NUMBER                                  | SEXXXXH-XXXXXBXX4               |                            |            |                            |            |             |                              |     |
| <b>OUTPUT</b>   |                                 |                            |            |                            |            |             |                              |     |
| Rated AC Power Output   | 3000                            | 3800 @ 240V<br>3300 @ 208V | 5000       | 6000 @ 240V<br>5000 @ 208V | 7600       | 10000       | 11400 @ 240V<br>10000 @ 208V | VA  |
| Maximum AC Power Output   | 3000                            | 3800 @ 240V<br>3300 @ 208V | 5000       | 6000 @ 240V<br>5000 @ 208V | 7600       | 10000       | 11400 @ 240V<br>10000 @ 208V | VA  |
| AC Output Voltage Min.-Nom.-Max. (211 - 240 - 264)                        | ✓                               | ✓                          | ✓          | ✓                          | ✓          | ✓           | ✓                            | Vac |
| AC Output Voltage Min.-Nom.-Max. (183 - 208 - 229)                        | -                               | ✓                          | -          | ✓                          | -          | -           | ✓                            | 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          | 47.5                         | A   |
| Maximum Continuous Output Current @208V                                   | -                               | 16                         | -          | 24                         | -          | -           | 48.5                         | A   |
| Power Factor  | 1, adjustable -0.85 to 0.85     |                            |            |                            |            |             |                              |     |
| GFDI Threshold  | 1                               |                            |            |                            |            |             |                              | A   |
| Utility Monitoring, Islanding Protection, Country Configurable Thresholds | Yes                             |                            |            |                            |            |             |                              |     |
| <b>INPUT</b>  |                                 |                            |            |                            |            |             |                              |     |
| Maximum DC Power @240V  | 4650                            | 5900                       | 7750       | 9300                       | 11800      | 15500       | 17650                        | W   |
| Maximum DC Power @208V  | -                               | 5100                       | -          | 7750                       | -          | -           | 15500                        | W   |
| Transformer-less, Ungrounded  | Yes                             |                            |            |                            |            |             |                              |     |
| Maximum Input Voltage   | 480                             |                            |            |                            |            |             |                              | Vdc |
| Nominal DC Input Voltage  | 380                             |                            |            |                            | 400        |             |                              | Vdc |
| Maximum Input Current @240V <sup>(2)</sup>                                | 8.5                             | 10.5                       | 13.5       | 16.5                       | 20         | 27          | 30.5                         | Adc |
| Maximum Input Current @208V <sup>(2)</sup>                                | -                               | 9                          | -          | 13.5                       | -          | -           | 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                              |                            |            |                            |            |             | 99 @ 240V<br>98.5 @ 208V     | %   |
| Nighttime Power Consumption   | < 2.5                           |                            |            |                            |            |             |                              | W   |

<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

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## ADDITIONAL FEATURES

|   |  |
|---|--|
| Supported Communication Interfaces        | RS485, Ethernet, ZigBee (optional), Cellular (optional)                              |
| Revenue Grade Data, ANSI C12.20           | Optional <sup>(3)</sup>  |
| Inverter Commissioning                    | with the SetApp mobile application using built-in Wi-Fi station for local connection |
| 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 / 14-6 AWG                 |             |             | 3/4" minimum /14-4 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                      |             |             |                                       |         |
| Operating Temperature Range                      | -40 to +140 / -40 to +60 <sup>(4)</sup> |             |             |                                       |         |
| Protection Rating                                | NEMA 4X (Inverter with Safety Switch)   |             |             |                                       |         |

<sup>(3)</sup> Revenue grade inverter P/N: SExxxxH-US000BNC4

<sup>(4)</sup> Full power up to at least 50°C / 122°F; for power de-rating information refer to: <https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf>