



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
- Integrated Arc Fault protection and Rapid Shutdown for NEC 2017, 690.11 and 690.12
- 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 | |
|---|---|------------|------------|------------|------------|---------|
| OUTPUT | | | | | | |
| 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 ⁽¹⁾ | | | | | 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 | | | | | |
| INPUT | | | | | | |
| 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 | - | - | 15.5 | - | - | Adc |
| Maximum Input Current 240V | 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 Ω 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 ⁽²⁾ | | | | | |
| Rapid Shutdown - NEC 2017 690.12 | Automatic Rapid Shutdown upon AC Grid Disconnect | | | | | |
| STANDARD COMPLIANCE | | | | | | |
| Safety | UL1741, UL1699B, CSA C22.2, Canadian AFCl according to T.I.L. M-07 | | | | | |
| Grid Connection Standards | IEEE1547, Rule 21 ⁽³⁾ , Rule 14 (HI) | | | | | |
| Emissions | FCC Part 15 Class B | | | | | |
| INSTALLATION SPECIFICATIONS | | | | | | |
| 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 | 25.3 / 11.5 | | | | | lb / kg |
| Noise | < 25 | | | | | dBA |
| Cooling | Natural Convection | | | | | |
| Operating Temperature Range | -13 to +140 / -25 to +60 ⁽⁴⁾ (-40°F / -40°C option) ⁽⁵⁾ | | | | | °F / °C |
| Protection Rating | NEMA 3R (Inverter with Safety Switch) | | | | | |

⁽¹⁾ For other regional settings please contact SolarEdge support

⁽²⁾ Revenue grade inverter P/N: SExxxH-US000NNC2

⁽³⁾ Pending certification

⁽⁴⁾ Power de-rating from 50°C

⁽⁵⁾ -40 version P/N: SExxxH-US000NNU4



RoHS