

Single Phase Inverter with HD-Wave Technology

for Australia

SE2500H, SE3000H, SE4000H,
SE5000H, SE6000H, SE8000H, SE10000H

INVERTERS



Optimised installation with HD-Wave technology

- Specifically designed to work with power optimisers
- Quick and easy inverter commissioning directly from a smartphone using the SolarEdge SetApp
- Record-breaking efficiency
- Extremely small, lightweight and easy to install
- High reliability
- Built-in module-level monitoring (Wi-Fi antenna included)
- Outdoor and indoor installation
- Fixed voltage inverter for longer strings
- Advanced safety features - integrated arc fault protection

/ Single Phase Inverter with HD-Wave Technology for Australia

SE2500H, SE3000H, SE4000H,
SE5000H, SE6000H, SE8000H, SE10000H

| | SE2500H | SE3000H | SE4000H | SE5000H | SE6000H | SE8000H | SE10000H | |
|--|--|---------|---------|---------|---------|---|----------|-----|
| APPLICABLE TO INVERTERS WITH PART NUMBER | SEXXXXH-AUXXXXXX4 | | | | | | | |
| OUTPUT | | | | | | | | |
| Rated AC Power Output | 2500 | 3000 | 4000 | 4985 | 6000 | 8000 | 10000 | VA |
| Maximum AC Power Output | 2500 | 3000 | 4000 | 4985 | 6000 | 8000 | 10000 | VA |
| AC Output Voltage (Nominal) | 220/230 | | | | | | | Vac |
| AC Output Voltage Range | 184 - 264.5 | | | | | | | Vac |
| AC Frequency (Nominal) | 50/60 ± 5 | | | | | | | Hz |
| Maximum Continuous Output Current | 11.5 | 14 | 18.5 | 23 | 27.5 | 36.5 | 45.5 | A |
| Total Harmonic Distortion (THD) | < 3 | | | | | | | % |
| Power Factor | 1, adjustable -0.8 to 0.8 | | | | | | | |
| Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds | Yes | | | | | | | |
| INPUT | | | | | | | | |
| Maximum DC Power | 3875 | 4650 | 6200 | 7750 | 9300 | 12400 | 15500 | W |
| Transformer-less, Ungrounded | Yes | | | | | | | |
| Maximum Input Voltage | 480 | | | | | | | Vdc |
| Nominal DC Input Voltage | 380 | | | | | 400 | | Vdc |
| Maximum Input Current | 7.5 | 9 | 11.5 | 13.5 | 16.5 | 20.5 | 25.5 | Adc |
| Reverse-Polarity Protection | Yes | | | | | | | |
| Ground-Fault Isolation Detection | 600kΩ Sensitivity per Unit | | | | | | | |
| Maximum Inverter Efficiency | 99.2 | | | | | | | % |
| European Weighted Efficiency | 98.3 | 98.8 | | 99 | | | | % |
| Nighttime Power Consumption | < 2.5 | | | | | | | W |
| ADDITIONAL FEATURES | | | | | | | | |
| Supported Communication Interfaces | RS485, Ethernet, ZigBee for Smart Energy (optional) ⁽¹⁾ , Wi-Fi (Built-in; antenna included), Cellular (optional) | | | | | | | |
| Smart Energy Management | Export Limitation | | | | | | | |
| Arc Fault Protection | Integrated, User Configurable (According to UL1699B) | | | | | | | |
| Inverter Commissioning | with the SetApp mobile application using built-in Wi-Fi Access-Point for local connection | | | | | | | |
| STANDARD COMPLIANCE | | | | | | | | |
| Safety | IEC62109, AS/NZS3100 | | | | | | | |
| Grid Connection Standards | AS/NZS4777:2015 | | | | | | | |
| Emissions | IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12, FCC Part 15 Class B | | | | | | | |
| INSTALLATION SPECIFICATIONS | | | | | | | | |
| AC Output Conduit Size / Wire cross section | 25mm Maximum / 1-13 mm ² | | | | | | | |
| DC Input Conduit Size / # of Strings / Wire cross section | 25mm Maximum / 1-2 strings / 1-13 mm ² | | | | | 25mm Maximum / 1-3 strings / 1-13 mm ² | | |
| Dimensions with Safety Switch (HxWxD) | 450 x 370 x 174 | | | | | 540 x 370 x 185 | | mm |
| Weight with Safety Switch | 10 | 11.4 | | 11.9 | 17.6 | | kg | |
| Noise | < 25 | | | | | < 50 | | dBA |
| Cooling | Natural Convection | | | | | | | |
| Operating Temperature Range | -40 to +60 ⁽²⁾ | | | | | | | °C |
| Protection Rating | IP65 — Outdoor and Indoor | | | | | | | |

⁽¹⁾ For more information refer to: <https://www.solaredge.com/sites/default/files/se-zigbee-kit-wireless-communication-datasheet.pdf>

⁽²⁾ Full power up to at least 50°C. For power de-rating information refer to: <https://www.solaredge.com/sites/default/files/se-temperature-derating-note.pdf>