# SolarEdge Home Genesis Inverter

## For Australia and New Zealand

SE3000H, SE5000H, SE6000H, SE8250H, SE10000H

INVERTERS

## DC-optimised residential PV system that easily fits any roof

- Single string design for inverters up to 5kW AC
- Faster, simpler installations with maximum design flexibility
- Record-breaking inverter efficiency for more energy production
- Specifically designed to work with SolarEdge power optimisers for higher energy yield
- Battery-ready solution supporting on-grid storage
- IP65-rated, suitable for outdoor and indoor installation
- Rapid inverter commissioning via smartphone using SetApp
- Advanced safety features including SafeDC™ and integrated arc fault protection
- Compact, lightweight and easy to install
- Supports Wi-Fi communications (sold separately)



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| Applicable to inverters with part number | SEXXXXH-AULXXBXX4 | | | | | Units |
|---|---|---|---|---|---|---|
| | SE3000H | SE5000H | SE6000H | SE8250H | SE10000H | |
| **OUTPUT** | | | | | | |
| Rated AC Power Output | 3000 | 5000 | 6000 | 8250 | 10000 | VA |
| Maximum AC Power Output | 3000 | 5000 | 6000 | 8250 | 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 | 14 | 23 | 27.5 | 37.5 | 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 | | | | | |
| Short Circuit Current from the PV Array | 14 | 23 | 27.5 | 37.5 | 45.5 | A |
| **INPUT** | | | | | | |
| Maximum DC Power | 6000 | 10000 | 12000 | 165000 | 20000 | W |
| Transformer-less, Ungrounded | Yes | | | | | |
| Maximum Input Voltage | 480 | | | | | Vdc |
| Nominal DC Input Voltage | 380 | | | 400 | | Vdc |
| Maximum Input Current | 8.5 | 14 | 16.5 | 22.5 | 25.5 | Adc |
| Reverse-Polarity Protection | Yes | | | | | |
| Ground-Fault Isolation Detection | 600kΩ sensitivity per unit | | | | | |
| Maximum Inverter Efficiency | 99.2 | | | | | % |
| European Weighted Efficiency | 98.8 | 99 | | | | % |
| Nighttime Power Consumption | < 2.5 | | | | | W |
| **ADDITIONAL FEATURES** | | | | | | |
| Supported Communication Interfaces | RS485, Ethernet, Wi-Fi (optional)(1) | | | | | |
| Smart Energy Management(2) | 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/NSZ 4777.2:2020, EN 50549-1 | | | | | |
| 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 (H x W x D) | 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(3) | | | | | ˚C |
| Protection Rating | IP65, suitable for outdoor and indoor installations | | | | | |
| Maximum Altitude | 3000 | | | | | m |
| Manufacturing Countries | China / Vietnam / Hungary | | | | | |

(1) Wi-Fi connectivity requires connection of an additional Wi-Fi component, ordered separately. For more details ask your SolarEdge salesperson or refer to: https://www.solaredge.com/aus/products/communication.

(2) To support export limitation, the SolarEdge energy meter is required. For more details ask your SolarEdge salesperson or refer to: https://www.solaredge.com/aus/products/metering-and-sensors/solaredge-modbus-meter#/.

(3) 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.

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