# SolarEdge Home Wave Inverter

## Single Phase, for Europe

SE2200H / SE3000H / SE3500H / SE3680H / SE4000H / SE5000H / SE6000H

INVERTERS




## Optimized installation with HD-Wave technology

- Specifically designed to work with SolarEdge Power Optimizers
- Industry leading efficiency with 200% DC oversizing
- Quick and easy inverter commissioning directly from a smartphone using the SolarEdge SetApp
- Extremely compact, lightweight, and easy to install
- Built-in module-level monitoring
- Seamless wireless connectivity with system devices such as the SolarEdge Home Battery, via the optional SolarEdge Home Network platform
- Suitable for outdoor and indoor installation
- Fixed voltage inverter for longer strings
- Advanced safety feature - integrated arc fault protection

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| APPLICABLE TO INVERTERS WITH PART NUMBER | SEXXXXH-RW000BEN4 | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | SE2200H | SE3000H | SE3500H | SE3680H | SE4000H | SE5000H | SE6000H | UNITS |
| **OUTPUT** | | | | | | | | |
| Rated AC Power Output | 2200 | 3000 | 3500 | 3680 | 4000 | 5000[1] | 6000 | VA |
| Maximum AC Power Output | 2200 | 3000 | 3500 | 3680 | 4000 | 5000[1] | 6000 | 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 | 10 | 14 | 16 | 16 | 18.5 | 23 | 27.5 | A |
| Total Harmonic Distortion (THD) | <3 | | | | | | | % |
| Power Factor | 1, adjustable -0.9 to 0.9 | | | | | | | |
| Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds | Yes | | | | | | | |
| **INPUT** | | | | | | | | |
| Maximum DC Power | 4400 | 6000 | 7000 | 7360 | 8000 | 10,000[2] | 12,000 | W |
| Transformer-less, Ungrounded | Yes | | | | | | | |
| Maximum Input Voltage | 480 | | | | | | | Vdc |
| Nominal DC Input Voltage | 380 | | | | | | | Vdc |
| Maximum Input Current | 6.5 | 9 | 10 | 10.5 | 11.5 | 13.5 | 16.5 | 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 |
| **BATTERY STORAGE** | | | | | | | | |
| Supported Battery Models | SolarEdge Home Battery 400V for Europe | | | | | | | |
| Number of Batteries per Inverter | Up to 3 | | | | | | | |
| Continuous Power[3] | 5000 W per battery | | | | | | | |
| **ADDITIONAL FEATURES** | | | | | | | | |
| Supported Communication Interfaces | RS485, Ethernet, Wi-Fi (optional), wireless SolarEdge Home Network (optional)[4], Cellular (optional) | | | | | | | |
| Smart Energy Management | Export Limitation | | | | | | | |
| Inverter Commissioning | With the SetApp mobile application using built in Wi-Fi station for local connection | | | | | | | |
| Arc Fault Protection | Integrated, User Configurable (According to UL1699B) | | | | | | | |
| **STANDARD COMPLIANCE** | | | | | | | | |
| Safety | IEC 62109-1/2 | | | | | | | |
| Grid Connection Standards | IEC 61727, IEC 62116, EN 50438, VDE-AR-N-4105, VDE 0126-1-1, UTE_C_15-712, G98,G99, CEI-021, ÖNORM, TF3.2.1, C10-11, NRS 097-2-1 | | | | | | | |
| Electromagnetic Compatibility (EMC) | EN/IEC 61000-6-1, EN/IEC 61000-6-2, EN/IEC 61000-6-3, EN/IEC 61000-6-4, EN 55011, FCC Part 15, EN/IEC 61000-3-2, EN/IEC 61000-3-3, EN/IEC 61000-3-11, EN/IEC 61000-3-12 | | | | | | | |
| **INSTALLATION SPECIFICATIONS** | | | | | | | | |
| AC Output – Supported Cable Diameter | 9 – 16 | | | | | | | mm |
| AC – Supported Wire Cross Section | 1 – 13 | | | | | | | $mm^2$ |
| DC Input | 1 x MC4 | | | | 2 x MC4 pair | | | |
| Dimensions (H x W x D) | 280 x 370 x 142 | | | | | | | mm |
| Noise | < 25 | | | | | | | dBA |
| Weight | 7.8 | | | | 9 | | 10.6 | kg |
| Cooling | Natural Convection | | | | | | | |
| Operating Temperature Range | -40 to +60[5] | | | | | | | ˚C |
| Protection Rating | IP65 – outdoor and Indoor | | | | | | | |

(1) 4600 VA in Germany.
(2) 7130 VA in Germany.
(3) The total continuous discharge power is limited up to the inverter's rated AC power for on-grid applications.
(4) For more information, refer to the SolarEdge Home Network Plug-in datasheet.
(5) Full power up to at least 50˚C / 122˚F. For power derating information, refer to the Temperature Derating technical note.

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