

StorEdge® Single Phase Inverter with HD-Wave Technology

SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H

StorEdge®



Optimized for on-grid applications

- / A single unit which manages PV, household consumption, and battery power
- / Simple installation and inventory management
- / Connects to the LG Chem RESU 7H/10H and LG Chem RESU 10H/16H Prime batteries
- / Industry leading efficiency with 200% DC oversizing
- / Quick and easy inverter commissioning directly from a smartphone using the SolarEdge SetApp
- / Seamless wireless connectivity with system devices such as the SolarEdge Energy Bank battery, via optional SolarEdge Energy Net platform
- / Built-in module-level monitoring
- / Designed to eliminate DC voltage and current during installation, maintenance or firefighting
- / Fixed voltage inverter for longer strings
- / Suitable for outdoor and indoor installation

/ StorEdge® Single Phase Inverter with HD-Wave Technology

SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H

| APPLICABLE TO INVERTERS WITH PART NUMBER | SEXXXXH-RWSXXBXX4 | | | | | | | |
|--|--|---------|---------|---------|---------|---------|---------|-----|
| | SE2200H | SE3000H | SE3500H | SE3680H | SE4000H | SE5000H | SE6000H | |
| OUTPUT | | | | | | | | |
| Rated AC Power Output | 2200 | 3000 | 3500 | 3680 | 4000 | 5000 | 6000 | VA |
| Maximum AC Power Output | 2200 | 3000 | 3500 | 3680 | 4000 | 5000 | 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 | | | | | | | |
| Charge Battery from AC | Yes | | | | | | | |
| INPUT (PV) | | | | | | | | |
| Maximum DC Power | 4400 | 6000 | 7000 | 7360 | 8000 | 10000 | 12000 | 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 | 600 | | | | | | | kΩ |
| Maximum Inverter Efficiency | 99.2 | | | | | | | % |
| European Weighted Efficiency | 98.3 | 98.8 | | | | 99 | | % |
| INPUT (BATTERY) | | | | | | | | |
| Compatible Batteries | LG Chem RESU7H, LG Chem RESU10H, LG Chem RESU10H Prime, LG Chem RESU16H Prime | | | | | | | |
| Number of Batteries per Inverter | Single LG Chem RESU7H or RESU10H Two LG Chem RESU10H or RESU16H Prime batteries ⁽¹⁾ | | | | | | | |
| Maximum Continuous Battery Charge and Discharge | 5000 | | | | | | | W |
| Max Input Voltage | 480 | | | | | | | Vdc |
| Max Continuous Current | 14 | | | | | | | Adc |
| ADDITIONAL FEATURES | | | | | | | | |
| Supported Communication Interfaces | RS485, Ethernet, Wi-Fi ⁽²⁾ , wireless SolarEdge Energy Net (optional) ⁽³⁾ , Cellular (optional), ZigBee for Smart Energy (optional) ⁽⁴⁾ | | | | | | | |
| Smart Energy Management ⁽⁵⁾ | Export Limitation, Smart Energy | | | | | | | |
| Inverter Commissioning | With the SetApp mobile application using built in Wi-Fi access point for local connection | | | | | | | |
| Arc Fault Protection | Integrated, User Configurable (According to UL1699B) | | | | | | | |

(1) Supporting inverter FW is required for increased capacity

(2) Wi-Fi connectivity requires an external antenna. For more information refer to: <https://www.solaredge.com/sites/default/files/se-wifi-zigbee-antenna-datasheet.pdf>

(3) For more information, refer to: <https://www.solaredge.com/sites/default/files/se-energy-net-plug-in-datasheet.pdf>

(4) For more information refer to: <https://www.solaredge.com/sites/default/files/se-zigbee-plug-in-wireless-communication-for-setapp-datasheet.pdf>

(5) An import and export meter is required for export limitation and most of home energy management functions

/ StorEdge® Single Phase Inverter with HD-Wave Technology

SE2200H, SE3000H, SE3500H, SE3680H, SE4000H, SE5000H, SE6000H

| APPLICABLE TO INVERTERS WITH PART NUMBER | SEXXXXH-RWSXXBXX4 | | | | | | | |
|--|---|---------|---------|--------------|---------|---------|---------|-----------------|
| | SE2200H | SE3000H | SE3500H | SE3680H | SE4000H | SE5000H | SE6000H | |
| STANDARD COMPLIANCE | | | | | | | | |
| Safety | IEC-62109-1/2, AS-3100 | | | | | | | |
| Grid Connection Standards | IEC61727, IEC62116, EN 50438, VDE-AR-N-4105, VDE 0126-1-1, UTE_C_15-712, G83/2, G59/3, CEI-021, ÖNORM, TF3.2.1, C10-11, NRS 097-2-1 | | | | | | | |
| Emissions | IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12, FCC Part 15 Class B | | | | | | | |
| INSTALLATION SPECIFICATIONS | | | | | | | | |
| AC Output - Supported Cable Diameter | 9-16 | | | | | | | mm |
| AC - Supported Wire Cross Section | 1-10 | | | | | | | mm ² |
| DC Input (PV) | 1 x MC4 | | | 2 x MC4 pair | | | | |
| Battery Input | 1 x MC4 | | | | | | | |
| Dimensions (H x W x D) with StorEdge Interface | 450 x 370 x 174 | | | | | | | mm |
| Noise | < 25 | | | | | | | dBA |
| Weight | 10 | | | | 11.4 | | 11.9 | kg |
| Cooling | Natural Convection | | | | | | | |
| Operating Temperature Range | -40 to +60 ⁽⁶⁾ | | | | | | | °C |
| Protection Rating | IP65 — Outdoor and Indoor | | | | | | | |

(6) 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>