# StorEdge®
# Three Phase Inverter

SE5K-RWS / SE7K-RWS / SE8K-RWS / SE10K-RWS

STOREDGE®




## Ideal solution for three phase installations with battery storage

- Simple installation with single inverter for managing both PV production and battery storage
- More energy using DC-coupled solution architecture that stores PV power directly to the battery without AC conversion losses
- Quick and easy inverter commissioning directly from a smartphone using SolarEdge SetApp
- Designed to eliminate high voltage during installation, maintenance, or firefighting for enhanced safety
- Built-in module-level monitoring and full visibility of battery status, PV production, and self-consumption data
- Allows connection of low voltage 48V batteries from multiple battery vendors to provide greater flexibility

# StorEdge® Three Phase Inverter

## SE5K-RWS / SE7K-RWS / SE8K-RWS / SE10K-RWS

| Applicable to inverters with part number | SEXK-XXS48XXXX | | | | |
|---|---|---|---|---|---|
| | SE5K-RWS | SE7K-RWS | SE8K-RWS | SE10K-RWS | Units |
| **OUTPUT** | | | | | |
| Rated AC Power Output | 5000 | 7000 | 8000 | 10,000 | VA |
| Maximum AC Power Output | 5000 | 7000 | 8000 | 10,000 | VA |
| AC Output Voltage – Line to Line / Line to Neutral (Nominal) | 380/220; 400/230 | | | | Vac |
| AC Output Voltage – Line to Neutral Range | 184 – 264.5 | | | | Vac |
| AC Frequency | 50/60 ± 5 | | | | Hz |
| Maximum Continuous Output Current (per Phase) | 8 | 11.5 | 13 | 16 | A |
| Residual Current Detector / Residual Current Step Detector | 300 / 30 | | | | mA |
| Grids Supported – Three Phase | 3 / N / PE (WYE with Neutral) | | | | |
| Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds | Yes | | | | |
| **INPUT PV** | | | | | |
| Maximum DC Power (Module STC) | 6750 | 9450 | 10,800 | 13,500 | W |
| Transformer-less, Ungrounded | Yes | | | | |
| Maximum Input Voltage | 900 | | | | Vdc |
| Nominal DC Input Voltage | 750 | | | | Vdc |
| Maximum Input Current | 8.5 | 12 | 13.5 | 16.5 | Adc |
| Reverse-Polarity Protection | Yes | | | | |
| Ground-Fault Isolation Detection | 700kΩ Sensitivity | | | | |
| Maximum Inverter Efficiency | 98 | | | | % |
| European Weighted Efficiency | 97.3 | 97.4 | 97.6 | | % |
| **INPUT BATTERY** | | | | | |
| Supported Battery Types[1] | SolarEdge Home Battery 48V BAT-05K48M0B-02<br>LG Chem RESU3.3, RESU6.5, RESU10, RESU12, RESU13[2]<br>LG enblock C6.5, C10, C12<br>BYD Battery-Box LV 3.5, 7.0, 10.5, 14.0<br>BYD Battery-Box Premium LVS 4.0, 8.0, 12.0, 16.0, 20.0, 24.0 | | | | |
| Number of Batteries per Inverter | 1 | | | | |
| Maximum DC Power | 5000 | | | | W |
| Input Voltage Range | 40 – 62 | | | | Vdc |
| Maximum Continuous Input Current | 130 | | | | Adc |
| Peak Battery to Grid Discharge Efficiency | 96.1 | | | | % |
| Battery Communication | CAN | | | | |
| **ADDITIONAL FEATURES** | | | | | |
| Supported Communication Interfaces | 2 x RS485; Ethernet; ZigBee communications for Smart Energy[3]; Wi-Fi[4];<br>Built-in cellular (optional) | | | | |
| **STANDARD COMPLIANCE** | | | | | |
| Safety | IEC 62109 | | | | |
| Grid Connection Standards[5] | VDE 0126-1-1; VDE-AR-N-4105; G98 / G99 | | | | |
| Emissions | IEC 61000-6-2; IEC 61000-6-3; IEC 61000-3-11; IEC 61000-3-12 | | | | |
| RoHS | Yes | | | | |
| **INSTALLATION SPECIFICATIONS** | | | | | |
| AC Output – Cable Gland Diameter | 15 – 21 | | | | mm |
| Battery DC – Cable Gland Diameter | 2 x 8 – 11 | | | | mm |
| PV DC Input | 2 x MC4 pair | | | | |
| Dimensions (H x W x D) | 853 x 316 x 193 | | | | mm |
| Weight | 37 | | | | kg |
| Operating Temperature Range | -40 to +60 | | | | ˚C |
| Cooling | Internal and external fans | | | | |
| Noise | < 50 | | | | dBA |
| Protection Rating | IP65 – outdoor and indoor | | | | |
| Mounting | Brackets provided | | | | |

(1) For supported battery models, refer to the StorEdge Three Phase Inverter – System Configurations application note.
(2) When connecting two batteries together with a RESU Plus box, any combination of LG RESU 3.3, 6.5, 10 and 12 is supported. RESU 13 can only be connected to another RESU 13.
(3) For more information refer to the ZigBee Plugin for Inverters with SetApp Configuration datasheet.
(4) Wi-Fi connectivity requires an external antenna. For more information refer to the Antenna for Wi-Fi and ZigBee Wireless Communications datasheet.
(5) For all standards, see the Certifications section in the Knowledge Center.

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CE RoHS