# SolarEdge Home Wave Inverter

## Three Phase, for Europe

SE3K – SE10K

INVERTERS




## Specifically designed to work with power optimizers

- Noise level suitable for residential environments – no external fan
- Superior efficiency (98%)
- Battery-ready – one inverter for both PV and battery storage(*)
- Small, lightest in its class, and easy to install
- Built-in module-level monitoring
- Quick and easy inverter commissioning directly from a smartphone using SolarEdge SetApp
- Internet connection through Ethernet or Wireless (Wi-Fi or Cellular)
- IP65 – outdoor and indoor installation
- Fixed voltage inverter for longer strings
- Smart Energy Management control
- Advanced safety feature - integrated arc fault protection

(*) Pending battery availability and firmware upgrade

# SolarEdge Home Wave Inverter

## Three Phase, for Europe

### SE3K – SE10K[1]

| | SE3K[2][3] | SE4K[2] | SE5K | SE6K[2] | SE7K | SE8K | SE9K | SE10K | Units |
|---|---|---|---|---|---|---|---|---|---|
| Applicable to inverters with part number | SEXXK-XXXTXBXX4 | | | | | | | | |
| **OUTPUT** | | | | | | | | | |
| Rated AC Power Output | 3000 | 4000 | 5000 | 6000 | 7000 | 8000 | 9000 | 10,000 | VA |
| Maximum AC Power Output | 3000 | 4000 | 5000 | 6000 | 7000 | 8000 | 9000 | 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) | 5 | 6.5 | 8 | 10 | 11.5 | 13 | 14.5 | 16 | A |
| Grids Supported - Three Phase | 3 / N / PE (WYE with Neutral) | | | | | | | | |
| Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds | Yes | | | | | | | | |
| **INPUT** | | | | | | | | | |
| Maximum DC Power (Module STC) | 4500[4] | 6000 | 7500 | 9000 | 10,500 | 12,000 | 13,500 | 15,000 | W |
| Transformer-less, Ungrounded | Yes | | | | | | | | |
| Maximum Input Voltage | 900 | | | | | | | | Vdc |
| Nominal DC Input Voltage | 750 | | | | | | | | Vdc |
| Maximum Input Current | 5 | 7 | 8.5 | 10 | 12 | 13.5 | 15 | 16.5 | Adc |
| Reverse-Polarity Protection | Yes | | | | | | | | |
| Ground-Fault Isolation Detection | 700kΩ Sensitivity | | | | | | | | |
| Maximum Inverter Efficiency | 98 | | | | | | | | % |
| European Weighted Efficiency | 96.7 | 97.3 | 97.3 | 97.3 | 97.4 | 97.6 | 97.5 | 97.6 | % |
| Nighttime Power Consumption | < 2.5 | | | | | | | | W |
| **ADDITIONAL FEATURES** | | | | | | | | | |
| Supported Communication Interfaces[5] | RS485, Ethernet, wireless SolarEdge Home Network (optional)[6], Wi-Fi (optional), Cellular (optional) | | | | | | | | |
| Smart Energy Management | Export Limitation, Home Energy Management (Device Control) | | | | | | | | |
| 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 UL 1699B) | | | | | | | | |
| **STANDARD COMPLIANCE** | | | | | | | | | |
| Safety | IEC 62109-1/2 | | | | | | | | |
| Grid Connection Standards[7] | VDE-AR-N 4105, Tor Erzeuger Typ A, EN 50549-1, CEI 0-21, G98 Type A, G98 NI Type A, G100, RD1699 / RD413 / NTS, VDE-V 0126-1-1, VFR 2019, C10/11, EN 50438 | | | | | | | | |
| Electromagnetic Compatibility (EMC) | IEC 61000-6-2, IEC 61000-6-3, IEC 61000-3-11, IEC 61000-3-12, EN 55011 | | | | | | | | |
| RoHS | Yes | | | | | | | | |
| **INSTALLATION SPECIFICATIONS** | | | | | | | | | |
| AC Output | Cable Gland – diameter 15 – 21 | | | | | | | | mm |
| DC Input | 2 MC4 pairs | | | | | | | | |
| Dimensions (H x W x D) | 540 x 315 x 191 | | | | | | | | mm |
| Weight | 16.4 | | | | | | | | kg |
| Operating Temperature Range | -40 to +60[8] | | | | | | | | ˚C |
| Cooling | Internal Fan | | | | | | | | |
| Noise | < 40 | | | | | | | | dBA |
| Protection Rating | IP65 – outdoor and Indoor | | | | | | | | |
| Mounting | Bracket Provided | | | | | | | | |

(1) For higher power models refer to: SE12.5K-SE17K Three Phase Inverter with SetApp Configuration datasheet.
(2) Available in some countries. Refer to the Certifications category in the Knowledge Center.
(3) SE3K-RW010BNN4 is dedicated for connection of exactly 10 P404/P405/P485/P505 optimizers.
(4) Maximum allowed DC power is 3700W with SE3K-RW010BNN4.
(5) Refer to the Communications category the Knowledge Center for specifications of optional communication options.
(6) For more information, refer to the SolarEdge Home Network Wireless Mesh Network datasheet.
(7) For all standards refer to the Certifications category in the Knowledge Center.
(8) For power de-rating information refer to the Temperature Derating technical note.

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CE RoHS