INVERTERS

SolarEdge Home Wave Inverter

Three Phase, for Europe

SE3K – SE10K



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

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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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