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# Three Phase Inverter

SE3K - SE10K

INVERTERS



## Specifically designed to work with power optimizers

- // Noise level suitable for residential environments – No external fan
- // Superior efficiency (98%)
- // Small, lightest in its class, and easy to install
- // Built-in module-level monitoring
- // Quick and easy inverter commissioning directly from a smartphone using the SolarEdge SetApp
- // Internet connection through Ethernet or Wireless (Wi-Fi, ZigBee Gateway, Cellular)
- // IP65 – Outdoor and indoor installation
- // Fixed voltage inverter for longer strings
- // Smart Energy Management control

# / Three Phase Inverter

SE3K-SE10K<sup>(1)</sup>

	SE3K <sup>(2)(3)</sup>	SE4K <sup>(2)</sup>	SE5K	SE6K <sup>(2)</sup>	SE7K	SE8K	SE9K	SE10K	UNITS
Applicable to inverters with part number	SEXK-XXXTBXX4								
<b>OUTPUT</b>									
Rated AC Power Output	3000	4000	5000	6000	7000	8000	9000	10000	VA
Maximum AC Power Output	3000	4000	5000	6000	7000	8000	9000	10000	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								
<b>INPUT</b>									
Maximum DC Power (Module STC)	4050 <sup>(4)</sup>	5400	6750	8100	9450	10800	12150	13500	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
<b>ADDITIONAL FEATURES</b>									
Supported Communication Interfaces <sup>(5)</sup>	RS485, Ethernet, ZigBee (optional), Wi-Fi (requires antenna) <sup>(6)</sup> , 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								
<b>STANDARD COMPLIANCE</b>									
Safety	IEC-62103 (EN50178), IEC-62109								
Grid Connection Standards <sup>(7)</sup>	VDE 0126-1-1, VDE-AR-N-4105, AS-4777, G83 / G59								
Emissions	IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12, FCC part15 class B								
RoHS	Yes								
<b>INSTALLATION SPECIFICATIONS</b>									
AC Output	Cable Gland - diameter 15-21								mm
DC Input	2 MC4 pairs								
Dimensions (HxWxD)	540 x 315 x 191								mm
Weight	16.4								kg
Operating Temperature Range	-40 to +60 <sup>(8)</sup>								°C
Cooling	Internal Fan								
Noise	< 40								dBA
Protection Rating	IP65 - Outdoor and Indoor								
Mounting	Bracket Provided								

<sup>(1)</sup> For higher power models refer to: <https://www.solaredge.com/sites/default/files/se-three-phase-inverter-extended-power-datasheet.pdf>

<sup>(2)</sup> Available in some countries; refer to Certifications category in Downloads page: <http://www.solaredge.com/groups/support/downloads>

<sup>(3)</sup> SE3K-RW010BNN4 is dedicated for connection of exactly 10 P404/P405/P485/P505 optimizers.

<sup>(4)</sup> Maximum allowed DC power is 3700W with SE3K-RW010BNN4

<sup>(5)</sup> Refer to Datasheets -> Communications category in Downloads page for specifications of optional communication options: <http://www.solaredge.com/groups/support/downloads>

<sup>(6)</sup> 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>

<sup>(7)</sup> For all standards refer to Certifications category in Downloads page: <http://www.solaredge.com/groups/support/downloads>

<sup>(8)</sup> For power de-rating information refer to: <https://www.solaredge.com/sites/default/files/se-temperature-derating-note.pdf>