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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
- // 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)(2)</sup>

	SE3K <sup>(3)</sup>	SE4K <sup>(3)</sup>	SE5K	SE6K <sup>(3)</sup>	SE7K	SE8K	SE9K	SE10K	UNITS
<b>OUTPUT</b>									
Rated AC Power Output	3000	4000	5000	6000	7000	8000	9000	1000	VA
Maximum AC Power Output	3000	4000	5000	6000	7000	8000	9000	1000	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)								V
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes								
<b>INPUT</b>									
Maximum DC Power (Module STC)	4050	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>(4)</sup>	RS485, Ethernet, ZigBee (optional), Wi-Fi (optional), Built-in GSM (optional)								
Smart Energy Management	Export Limitation, Home Energy Management (Device Control)								
<b>STANDARD COMPLIANCE</b>									
Safety	IEC-62103 (EN50178), IEC-62109								
Grid Connection Standards <sup>(5)</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	18.9								kg
Operating Temperature Range	-20 to +60 <sup>(6)</sup> (M40 version -40 to +60)								°C
Cooling	Internal Fan								
Noise	< 40								dBA
Protection Rating	IP65 - Outdoor and Indoor								
Mounting	Bracket Provided								

(1) These specifications apply to inverters with part number SExK-xx00Exxxx

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

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

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

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

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