



SolarEdge E-Series Three Phase Inverters

SE3K - SE10K



INVERTERS

Specifically designed to work with power optimizers

- Noise level suitable for residential environment – 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



SolarEdge E-Series Three Phase Inverters

SE3K-SE10K⁽¹⁾⁽²⁾

	SE3K ⁽³⁾	SE4K ⁽⁴⁾	SE5K	SE7K	SE8K	SE9K	SE10K	
OUTPUT								
Rated AC Power Output	3000	4000	5000	7000	8000	9000	10000	VA
Maximum AC Power Output	3000	4000	5000	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	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							
INPUT								
Maximum DC Power (Module STC)	4050	5400	6750	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	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	97.4	97.6	97.5	97.6	%
Nighttime Power Consumption	< 2.5							W
ADDITIONAL FEATURES								
Supported Communication Interfaces ⁽⁵⁾	RS485, Ethernet, ZigBee (optional), Wi-Fi (optional), Built-in GSM (optional)							
Smart Energy Management	Export Limitation, Home Energy Management (Device Control)							
STANDARD COMPLIANCE								
Safety	IEC-62103 (EN50178), IEC-62109							
Grid Connection Standards ⁽⁶⁾	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							
INSTALLATION SPECIFICATIONS								
AC Output	Cable Gland - diameter 15-21							mm
DC Input	2 MC4 pairs							
Dimensions (HxWxD)	540 x 315 x 191							mm
Weight	18.7				18.9			kg
Operating Temperature Range	-20 - +60 ⁽⁷⁾ (M40 version -40 - +60)							°C
Cooling	Internal Fan							
Noise	< 40							dBA
Protection Rating	IP65 - Outdoor and Indoor							
Bracket Mounted (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 Austria, Hungary, Italy, Poland and Switzerland only

⁽⁴⁾ Available in some countries; refer to Certifications category in Downloads page: <http://www.solaredge.com/groups/support/downloads>

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

⁽⁶⁾ For all standards refer to Certifications category in Downloads page: <http://www.solaredge.com/groups/support/downloads>

⁽⁷⁾ SE8K: de-rating from 57.5°C; SE9K, SE10K: de-rating from 50°C

