



SolarEdge E-Series Three Phase Inverters

SE3K - SE8K



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, DC/AC conversion only



SolarEdge E-Series Three Phase Inverters

SE3K-SE8K⁽¹⁾⁽²⁾

	SE3K ⁽³⁾	SE4K ⁽⁴⁾	SE5K	SE7K	SE8K	
OUTPUT						
Rated AC Power Output	3000	4000	5000	7000	8000	VA
Maximum AC Power Output	3000	4000	5000	7000	8000	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	A
Residual Current Detector / Residual Current Step Detector	300 / 30					mA
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	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	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	%
Nighttime Power Consumption	< 2.5					W
ADDITIONAL FEATURES						
Supported Communication Interfaces ⁽⁵⁾	RS485, Ethernet, Zigbee (optional), Wi-Fi (optional), Built-in GSM (optional)					
STANDARD COMPLIANCE						
Safety	IEC-62103 (EN50178), IEC-62109					
Grid Connection Standards ⁽⁵⁾	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	21.7					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: <http://www.solaredge.com/sites/default/files/se-three-phase-inverter-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

