Three Phase Inverter

For Europe

SE12.5K – SE17K

INVERTERS



Specifically designed to work with power optimizers

- Superior efficiency (98%)
- Quick and easy inverter commissioning directly from a smartphone using the SolarEdge SetApp
- Small, lightest in its class, and easy to install
- Built-in module-level monitoring
- Internet connection through Ethernet or Wireless
- IP65 – Outdoor and indoor installation
- Fixed voltage inverter for longer strings
- Smart Energy Management control
- Advanced safety features – Integrated arc fault protection
- Optional RS485 surge protection

/ Three Phase Inverter

For Europe

SE12.5K – SE17K

Applicable to inverters with part number	SEXXK-XXXXXBXX4			
	SE12.5K	SE16K	SE17K	
OUTPUT				
Rated AC Active Output Power	12,500	16,000	17,000	W
Maximum AC Apparent Output Power	12,500	16,000	17,000	VA
AC Output Voltage – Line to Line / Line to Neutral (Nominal)	400 / 230			Vac
AC Output Voltage – Line to Neutral (Range)	184 – 264.5			Vac
AC Frequency	50/60 ± 5			Hz
AC Output Line Connections	20	25.5	26	Aac
Grids Supported - Three Phase	3 / N / PE (WYE with Neutral)			
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes			
THD	< 3			%
INPUT				
Maximum DC Power (Module STC)	18,750	21,600	22,950	W
Transformer-less, Ungrounded	Yes			
Maximum Input Voltage DC+ to DC-	950			Vdc
Nominal Input Voltage DC+ to DC-	750			Vdc
Maximum Input Current	21	23	23	Adc
Reverse-Polarity Protection	Yes			
Ground-Fault Isolation Detection	700kΩ Sensitivity			
Maximum Inverter Efficiency	98			%
European Weighted Efficiency	97.7			%
Nighttime Power Consumption	< 2.5			W
ADDITIONAL FEATURES				
Supported Communication Interfaces(1)	RS485, Ethernet, Wi-Fi (optional)(2) Cellular (optional)			
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi access point for local connection			
Smart Energy Management	Export Limitation			
Arc Fault Protection	Integrated, User Configurable (According to UL 1699B)			
RS485 Surge Protection	Optional(3)			
STANDARD COMPLIANCE				
Safety	IEC 62103 (EN 50178); IEC 62109; AS3100			
Grid Connection Standards(4)	VDE-AR-N-4105; G99; AS-4777; EN 50438; EN 50549-1; CEI-021; VDE 0126-1-1; CEI-016; EN 50549-1			
Electromagnetic Compatibility (EMC)	EN/IEC 61000-6-1; EN/IEC 61000-6-2; EN/IEC 61000-6-3; EN/IEC 61000-6-4; EN 55011; FCC Part 15; EN/IEC 61000-3-2; EN/IEC 61000-3-3; EN/IEC 61000-3-11; EN/IEC 61000-3-12			
RoHS	Yes			
INSTALLATION SPECIFICATIONS				
AC Output Gland Diameter / Wire Cross Section	15 – 21mm / Solid wire 2.5-16 mm^2			
DC Input	2 MC4 pairs			
Dimensions (H x W x D)	549 x 317 x 264			mm
Weight	30.7			kg
Operating Temperature Range	-40 to +60(5)			°C
Cooling	Fan (user replaceable)			
Noise	< 50			dBA
Protection Rating	IP65 – outdoor and indoor			
Mounting	Brackets provided			

(1) Refer to the Communications page for optional communication options.
(2) Wi-Fi connectivity requires connection of an additional Wi-Fi component, ordered separately. For details, contact SolarEdge support.
(3) An RS485 SPD plug-in can be purchased. For details, see the SPD Plug-in for RS485 datasheet.
(4) For all standards refer to Certifications document type in the Knowledge Center.
(5) For power derating information refer to the Temperature Derating technical note.

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CE RoHS