Three Phase Inverter

For Europe

SE12.5K – SE17K

12 – 20 YEAR WARRANTY

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

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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.

CE RoHS