Three Phase Inverter

For Europe

SE12.5K - SE20K

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

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Applicable to inverters with part number	SEXXK-XXXXXBXX4			SEXXK-XXXXIBXX4	
	SE12.5K	SE16K	SE17K	SE20K	
OUTPUT					
Rated AC Active Output Power	12500	16000	17000	20001*	W
Maximum AC Apparent Output Power	12500	16000	17000	20001*	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	23.2	24.6	29	Aac
Grids Supported - Three Phase	3 / N / PE (WYE with Neutral)			3 / N / PE (WYE with Neutral), 3 / PE	
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes				
THD	< 3				%
INPUT					
Maximum DC Power (Module STC)	16850	21600	22950	30000	W
Transformer-less, Ungrounded	Yes				
Maximum Input Voltage DC+ to DC-	1000				Vdc
Nominal Input Voltage DC+ to DC-	750				Vdc
Maximum Input Current	21	23.2	24.6	29	Adc
Reverse-Polarity Protection	Yes				
Ground-Fault Isolation Detection	700kΩ Sensitivity(1)			167kΩ Sensitivity(1)	
Maximum Inverter Efficiency	98				%
European Weighted Efficiency	97.7				%
Nighttime Power Consumption	< 2.5			< 4	W
ADDITIONAL FEATURES					
Supported Communication Interfaces(2)	RS485, Ethernet, Wi-Fi (optional)(3) 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 UL1699B)				
RS485 Surge Protection	Optional(4)				
DC Surge Protection	-			Type II, field replaceable, integrated	
AC Surge Protection	-			Type II, field replaceable, optional	
STANDARD COMPLIANCE					
Safety	IEC-62103 (EN50178), IEC-62109, AS3100				
Grid Connection Standards(5)	VDE-AR-N-4105, G99, AS-4777, EN50438, EN50549-1, CEI-021, VDE 0126-1-1, CEI-016, EN50549-1				
Emissions	IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12, Class B			IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12, Class A	
RoHS	Yes				
INSTALLATION SPECIFICATIONS					
AC Output Gland Diameter / Wire Cross Section	15-21mm / Solid wire 2.5-16 mm²			Cable diameter 19-28 mm / 4 - 16 mm²	
DC Input	2 MC4 pairs			4 MC4 pairs	
Dimensions (H x W x D)	549 x 317 x 264			550 x 317 x 273	mm
Weight	30.7			32	kg
Operating Temperature Range	-40 to +60(6)				˚C
Cooling	Fan (user replaceable)				
Noise	< 50			<62	dBA
Protection Rating	IP65 - outdoor and indoor				
Mounting	Brackets provided				

* 19900W for Italy
(1) Where permitted by local regulation
(2) Refer to Datasheets -> Communications category in Downloads page for specifications of optional communication options: https://www.solaredge.com/resource-library
(3) Wi-Fi connectivity requires connection of an additional Wi-Fi component, ordered separately. For more details ask your SolarEdge sales person or refer to: https://www.solaredge.com/products/communication
(4) An RS485 SPD plug-in can be purchased. Refer to: https://www.solaredge.com/sites/default/files/se_spd_plug_in_for_rs485_for_3ph_with_setapp_ds.pdf
(5) For all standards refer to Certifications category in Downloads page: https://www.solaredge.com/resource-library
(6) For power de-rating information refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note.pdf
(7) For SE15k and above, the minimum DC power should be 11KW

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CE RoHS