Three Phase Inverter

For Europe

SE12.5K - SE20K





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
- Ø Optional RS485 surge protection



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Applicable to inverters with part number	SEXXK-XXXXBXX4			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*	V
AC Output Voltage - Line to Line / Line to Neutral (Nominal)	400 / 230				Vá
AC Output Voltage - Line to Neutral (Range)	184 - 264.5				Vá
AC Frequency	50/60 ± 5				Н
AC Output Line Connections	20 23.2 24.6			29	Aa
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	<u><</u> 3				9
INPUT					
Maximum DC Power (Module STC)	16850	21600	22950	30000	V
Transformer-less, Ungrounded			′es		
Maximum Input Voltage DC+ to DC-	1000				V
Nominal Input Voltage DC+ to DC-	750				V
Maximum Input Current	21	23.2	24.6	29	A
Reverse-Polarity Protection		Y	′es		
Ground-Fault Isolation Detection	700kΩ Sensitivity ⁽¹⁾			167kΩ Sensitivity ⁽¹⁾	
Maximum Inverter Efficiency	98				
European Weighted Efficiency	97.7				0
Nighttime Power Consumption	< 2.5 < 4				V
ADDITIONAL FEATURES					
Supported Communication Interfaces ⁽²⁾	R	S485, Ethernet, Wi-Fi (opt	ional) ⁽³⁾ Cellular (optiona	l)	
Inverter Commissioning		bile application using bui			
Smart Energy Management		Export Limitation			
Arc Fault Protection	Integrated, User Configurable (According to UL1699B)				
RS485 Surge Protection		Opti	ional ⁽⁴⁾		
DC Surge Protection	- re			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				
				IEC61000-6-2,	
Emissions	IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12, Class B		IEC61000-6-3, IEC61000-3-11, IEC61000-3-12, Class A		
RoHS	Yes				
INSTALLATION SPECIFICATIONS		·			
AC Output Gland Diameter / Wire Cross Section	15-2	1mm/Solid wire 2.5-16 m	nm ²	Cable diameter 19-28 mm / 4 - 16 mm ²	
DC Input	2 MC4 pairs			4 MC4 pairs	
Dimensions (H x W x D)		549 x 317 x 264			m
Weight		30.7		32	k
Operating Temperature Range	-40 to +60 ⁽⁶⁾				•
Cooling	Fan (user replaceable)				
Noise	< 50 <62			<62	dl
Protection Rating	IP65 - outdoor and indoor				
Mounting	Products provided				

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