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

- 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 - SE20K

pplicable to inverters with part number	SEXXK-XXXXXBXX4			SEXXK- XXXXIBXX4	
partialize	SE12.5K	SE16K	SE17K	SE20K	
OUTPUT					
Rated AC Active Output Power	12500	16000	17000	20001*	V
Maximum AC Apparent Output Power	12500	16000	17000	20001*	\ V
AC Output Voltage - Line to Line / Line to Neutral (Nominal)	12300		1	20001	٧
AC Output Voltage - Line to Neutral (Range)	400 / 230 184 - 264.5				V
AC Frequency	50/60 ± 5				ŀ
AC Output Line Connections	20	23.2	24.6	29	1
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				
INPUT					
Maximum DC Power (Module STC)	16850	21600	22950	30000	
Fransformer-less, Ungrounded			'es	1	
Maximum Input Voltage DC+ to DC-	1000				١
Nominal Input Voltage DC+ to DC-	750				,
Maximum Input Current	21	23.2	24.6	29	1
Reverse-Polarity Protection		Υ	'es		
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	
ADDITIONAL FEATURES	1				
Supported Communication Interfaces ⁽²⁾	R	S485, Ethernet, Wi-Fi (opt	ional) ⁽³⁾ Cellular (optiona	l)	
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		Opti	ional ⁽⁴⁾		
KS403 Surge Protection	Type II, field				
DC Surge Protection		-		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	15-2	1mm/Solid wire 2.5-16 m	nm²	Cable diameter 19-28 mm / 4 - 16 mm ²	
DC Input		2 MC4 pairs		4 MC4 pairs	
		549 x 317 x 264		550 x 317 x 273	r
		30.7			
Dimensions (H x W x D)				32	1
Dimensions (H x W x D) Weight		-40 to	D +60 ⁽⁶⁾		
Dimensions (H x W x D) Weight Operating Temperature Range		-40 to	o +60 ⁽⁶⁾ replaceable)	-	
Dimensions (H x W x D) Weight Operating Temperature Range Cooling Noise		-40 to		<62	C

^{* 19900}W 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