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	
ppileable to inverters with partifalliber	SE12.5K	SE16K	SE17K	SE20K	
OUTPUT					
Rated AC Active Output Power	12500	16000	17000	20001*	\
Maximum AC Apparent Output Power	12500	16000	17000	20001*	\ V
AC Output Voltage - Line to Line / Line to Neutral (Nominal)	12300	1	/230	20001	V
AC Output Voltage - Line to Neutral (Range)			264.5		V
AC Frequency	50/60 ± 5				-
AC Output Line Connections				29	Δ
Grids Supported - Three Phase				3 / N / PE (WYE with	
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country	Neutral), 3 / PE				-
Configurable Thresholds		Y	'es		
THD		<	<u>.</u> 3		
INPUT	1	_	-		
Maximum DC Power (Module STC)	16850	21600	22950	30000	
Transformer-less, Ungrounded	10000		1	30000	\vdash
Maximum Input Voltage DC+ to DC-	Yes 1000			١	
Nominal Input Voltage DC+ to DC-	750			١	
Maximum Input Current	21	23.2	24.6	29	-
Reverse-Polarity Protection	21	l .	es 24.0	2.7	-
Ground-Fault Isolation Detection		700kΩ Sensitivity ⁽¹⁾	<u></u>	167kΩ Sensitivity ⁽¹⁾	╁
Maximum Inverter Efficiency			98	107 KZ 2 SCH Sitivity	
European Weighted Efficiency	97.7				
Nighttime Power Consumption	97.7 < 2.5			< 4	
ADDITIONAL FEATURES		````		\ 7	_
Supported Communication Interfaces ⁽²⁾	D	CARE Ethornot Wi Ei (opt	ional\(\text{3}\) Collular (ontiona	J)	Т
Inverter Commissioning	RS485, Ethernet, Wi-Fi (optional) ⁽³⁾ Cellular (optional) With the SetApp mobile application using built-in Wi-Fi access point for local connection				\vdash
Smart Energy Management	Export Limitation				\vdash
Arc Fault Protection	Integrated, User Configurable (According to UL1699B)				-
	Optional ⁽⁴⁾				\vdash
RS485 Surge Protection		Opti	ional ⁴⁷	T " C 1 1	
DC Surge Protection		-		Type II, field replaceable, integrated	
AC Surge Protection		-		Type II, field	
STANDARD COMPLIANCE				replaceable, optional	
		IEC (2402 (ENIE0470)	JEC 63400 A 63400		
Safety Grid Connection Standards ⁽⁵⁾	VDF-AR-N-4105 G99 A	IEC-62103 (EN50178) S-4777, EN50438, EN5054		-1 CFI-016 FN50549-1	\vdash
One connection standards	132711 1103/033/11	3 1177/21130 130/211303	., ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,	IEC61000-6-2,	
Emissions	IFC61000 6 2 IFC610	000 6 2 IFC61000 2 11 IF	C61000 2 12 Class B	IEC61000-6-3,	
	IEC01000-0-2, IEC010	000-6-3, IEC61000-3-11, IE	C01000-3-12, Class b	IEC61000-3-11,	
2.16			,	IEC61000-3-12, Class A	-
ROHS		Y	'es		<u> </u>
INSTALLATION SPECIFICATIONS				C 10 20	
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	T	
Dimensions (H x W x D)		549 x 317 x 264		550 x 317 x 273	r
Weight	30.7		32		
~	-40 to +60 ⁽⁶⁾			<u> </u>	
Operating Temperature Range	Fan (user replaceable)			T	
		Fan (user r	'epiaceable)		
Cooling Noise		Fan (user r	еріасеаріе)	<62	(
		< 50	or and indoor	<62	C

^{* 19900}W for Italy
(1) Where permitted by local regulation
(2) Referto 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