Three Phase Inverters

For Delta Grids (Norway, Taiwan & Philippines)

SE12.5K - SE17K





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, DC/AC conversion only
- Optional integrated DC Safety Unit eliminates the need for external DC isolators
- Optional DC surge protection and DC fuses
- Advanced safety features integrated arc fault protection and optional rapid shutdown fuses



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Applicable to Inverters with	SEXXK-XXXXXBXX4				
Part Number	SE12.5K	SE15K SE16K		SE17K	
OUTPUT					
Rated AC Power Output	7200	8700	9200	10000	VA
Maximum AC Power Output	7200	8700	9200	10000	VA
AC Output Voltage - Line to Line / Line to PE	1200		; 230 / 133	10000	Va
AC Output Voltage - Line to Line Range			264.5		Va
AC Frequency			50 ± 5		H
Maximum Continuous Output Current (per Phase)	20	23	25.5	26	A
Residual Current Detector /	20	23	25.5	20	
Residual Current Detector / Residual Current Step Detector		300,	/ 30		m.
Grids Supported - Three Phase		3 Lines / PE (Delta; corner	arounding not supporte	d)	
Utility Monitoring, Islanding Protection, Configurable			J 11	-7	
Power Factor, Country Configurable Thresholds		Υ	'es		
THD		<u><</u>	<u><</u> 3		%
INPUT			_		
	0720	11745	12.420	12500	0,
Maximum DC Power (Module STC)	9720	11745	12420	13500	%
Transformer-less, Ungrounded			'es		
Maximum Input Voltage	600 370 - 600				Vo
Operational Voltage Range	40		_		Vo
Maximum Input Current	19	22.5	24	26	Ac
Reverse-Polarity Protection			'es		
Ground-Fault Isolation Detection	700kΩ Sensitivity				
Maximum Inverter Efficiency	98				%
European Weighted Efficiency	97.7	97.6		97.7	%
Nighttime Power Consumption		<	2.5		V
ADDITIONAL FEATURES					
Supported Communication Interfaces ⁽²⁾	RS485, Eth	ernet, Wi-Fi (requires antenn	a ⁽³⁾), ZigBee (optional), Ce	ellular (optional)	
Inverter Comissioning	With the SetApp mobile application using built-in Wi-Fi access point for local connection				
Rapid Shutdown	Optional ⁽⁴⁾ (Automatic upon AC Grid Disconnect)				
Arc Fault Protection	Integrated, User Configurable (According to UL1699B)				
Smart Energy Management	Export limitation				
RS485 Surge Protection			onal ⁽⁵⁾		
DC SAFETY UNIT (OPTIONAL)		Ори	Ondi		
		,	1/4		
2-pole Disconnection	N/A				
DC Surge Protection	N/A				
DC Fuses on Plus & Minus	N/A				
Compliance		<u> </u>	I/A		
STANDARD COMPLIANCE					
Safety		IEC-62103 (EN5	60178), IEC-62109		
Grid Connection Standards ⁽⁶⁾	C10/11, EN50438				
Electromagnetic Compatibility (EMC)	EN/IEC 61000-6-1, EN	N/IEC 61000-6-2, EN/IEC 610	000-6-3, EN/IEC 61000-6-	-4, EN 55011, FCC Part 15,	
3 1 7. 7	EN/IEC 61000-3-2, EN/IEC 61000-3-3, EN/IEC 61000-3-11, EN/IEC 61000-3-12 Yes				
RoHS					
INSTALLATION SPECIFICATIONS					
AC Output		Cahle Gland -	diameter 15 - 21		mı
DC Input	2 MC4 pairs			1111	
S C Hipat	N/A			m	
DC Input with Safety Unit	N/A				mı
Dimensions (H x W x D)	540 x 315 x 260				
1					m
Dimensions with Safety Unit (H x W x D)	N/A 20.7				mi
Weight Weight Cefet Heit	30.7 N/A				k
Weight with Safety Unit	N/A				k
Operating Temperature Range	-40 to +60 ⁽⁷⁾				°(
Cooling	Fan (user replaceable)				
Noise	< 50				dE
Protection Rating		IP65 - Outdo	or and Indoor		
Mounting		Bracket	Provided		1



Where permitted by local regulations

Refer to Datasheets -> Communications category in Downloads page for specifications of optional communication optons: https://www.solaredge.com/downloads#/

Wi-Fi connectivity requires an external antenna. For more information refer to: https://www.solaredge.com/sites/default/files/se-wifi-zigbee-antenna-datasheet.pdf

Inverter with rapid shutdown part number: SExxK-RWRxxxxx; available for SE25K and SE27.6K

Provided with the inverter in India only. For other countries an SPD plug-in can be purchased

Refer to: https://www.solaredge.com/sites/default/files/se_spd_plug_in_for_rs485_3ph_setapp_ds.pdf

For all standards refer to Certifications category in Downloads page: http://www.solaredge.com/sites/default/files/se_spd_plug_in_for_stabs_spd_setapp_ds.pdf

 $^{^{(7)}} For power de-rating information \ refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note.pdf$