Three Phase Inverter

SE12.5K - SE27.6K

12-20 YEAR WARRANTY

Specifically designed to work with power optimizers

- Superior efficiency (98.3%)

- 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

- Optional integrated DC Safety Unit - eliminates the need for external DC isolators

- Advanced safety features - integrated arc fault protection and optional rapid shutdown

- Optional DC surge protection and DC fuses

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/ Three Phase Inverter

SE12.5K - SE27.6K

	SE12.5K	SE15K	SE16K	SE17K	SE25K	SE27.6K	
Applicable to inverters with part number	SEXXK-XXXXXBXX4						
OUTPUT							
Rated AC Power Output	12500	15000	16000	17000	25000	27600	VA
Maximum AC Power Output	12500	15000	16000	17000	25000	27600	VA
AC Output Voltage - Line to Line / Line to Neutral (Nominal)	380 / 220 ; 400 / 230						Vac
AC Output Voltage - Line to Neutral Range	184 - 264.5						Vac
AC Frequency	50/60 ± 5						Hz
Maximum Continuous Output Current (per Phase)	20	23	25.5	26	38	40	A
Grids Supported - Three Phase	3 / N / PE (WYE with Neutral)						
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes						
THD	≤ 3						
INPUT							
Maximum DC Power (Module STC)	16850	20250	21600	22950	33750	37250	%
Transformer-less, Ungrounded	Yes						
Maximum Input Voltage	1000						Vdc
Nominal DC Input Voltage	750						Vdc
Maximum Input Current	21	22	23	23	37	40	Adc
Reverse-Polarity Protection	Yes						
Ground-Fault Isolation Detection	700kΩ Sensitivity				350kΩ Sensitivity[1]		
Maximum Inverter Efficiency	98				98.3		%
European Weighted Efficiency	97.7	97.6	97.7	97.7	98		%
Nighttime Power Consumption	< 2.5				< 4		W
ADDITIONAL FEATURES							
Supported Communication Interfaces[2]	RS485, Ethernet, Wi-Fi (requires antenna)[3], ZigBee (optional), Cellular (optional)						
Inverter Comissioning	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)						
Rapid Shutdown	Optional[4] (Automatic upon AC Grid Disconnect)						
DC SAFETY UNIT (OPTIONAL)							
2-pole Disconnection	N/A				1000V / 40A		
DC Surge Protection	N/A				Type II, field replaceable		
DC Fuses on Plus & Minus	N/A				Optional, 20A		
Compliance	N/A				UTE-C15-712-1		
STANDARD COMPLIANCE							
Safety	IEC-62103 (EN50178), IEC-62109, AS3100						
Grid Connection Standards[5]	VDE-AR-N-4105, G59/3, AS-4777,EN 50438 , CEI-021,VDE 0126-1-1, CEI-016, BDEW						
Emissions	IEC61000-6-2, IEC61000-6-3 , IEC61000-3-11, IEC61000-3-12						
RoHS	Yes						
INSTALLATION SPECIFICATIONS							
AC Output Gland Diameter / Wire Cross Section	15-21mm / Solid wire 2.5-16 mm²				18-25mm / Solid wire 2.5-16 mm², Stranded wire 2.5-10 mm²		
DC Input	2 MC4 pairs				3 MC4 pairs		
DC Input with Safety Unit	N/A				Gland diameter 5 - 10		mm
	N/A				Wire cross section 0.5 - 13.5		mm²
Dimensions (HxWxD)	540 x 315 x 260						mm
Dimensions with Safety Unit (HxWxD)	N/A				775 x 315 x 260		mm
Weight	33.2				45		kg
Weight with Safety Unit	N/A				48		kg
Operating Temperature Range	-40 - +60[6]						°C
Cooling	N/A				Fan (user replaceable)		
Noise	< 50				< 55		dBA
Protection Rating	IP65 - Outdoor and Indoor						
Mounting	Bracket Provided						

[1] Where permitted by local regulations
[2] Refer to Datasheets -> Communications category in Downloads page for specifications of optional communication options: http://www.solaredge.com/groups/support/downloads
[3] 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
[4] Inverter with rapid shutdown part number: SExxK-RWRxxxxxx; available for SE25K and SE27.6K
[5] For all standards refer to Certifications category in Downloads page: http://www.solaredge.com/groups/support/downloads
[6] For power de-rating information refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note.pdf

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