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

solaredge.com

solaredge

/ Three Phase Inverter

SE12.5K - SE27.6K

	SE12.5K	SE15K	SE16K	SE17K	SE25K	SE27.6K	
Applicable to inverters with part number	SEXXK-XXXXXBXX4						

OUTPUT

	SE12.5K	SE15K	SE16K	SE17K	SE25K	SE27.6K	
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

	SE12.5K	SE15K	SE16K	SE17K	SE25K	SE27.6K	
Maximum DC Power (Module STC)	16850	20250	21600	22950	33750	37250	W
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)
RS485 Surge Protection	Optional[5]

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[6]	VDE-AR-N-4105, G99, 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	30.7		45	kg
Weight with Safety Unit	N/A		48	kg
Operating Temperature Range	-40 - +60[7]			°C
Cooling	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] 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
[6] For all standards refer to Certifications category in Downloads page: http://www.solaredge.com/groups/support/downloads
[7] For power de-rating information refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note.pdf

CE **RoHS**