Three Phase Inverter

SE12.5K - SE27.6K

INVERTERS

Specifically designed to work with power optimizers

- Superior efficiency (98%)
- 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 (SE25K and SE27.6K only)
- Optional DC surge protection and DC fuses (SE25K and SE27.6K only)

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/ Three Phase Inverter

SE12.5K - SE27.6K

	SE12.5K	SE15K	SE16K	SE17K	SE25K	SE27.6K	
OUTPUT							
Rated AC Power Output	12500	15000	16000	17000	25000 [1]	27600	VA
Maximum AC Power Output	12500	15000	16000	17000	25000 [1]	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)						V
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes						
INPUT							
Maximum DC Power (Module STC)	16850	20250	21600	22950	33750	37250	W
Transformer-less, Ungrounded	Yes						
Maximum Input Voltage	900						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[2]		
Maximum Inverter Efficiency	98				98.3		%
European Weighted Efficiency	97.7	97.6	97.7	97.7	98	98	%
Nighttime Power Consumption	< 2.5				< 4		W
ADDITIONAL FEATURES							
Supported Communication Interfaces[3]	RS485, Ethernet, Zigbee (optional), Wi-Fi (optional), Built-in GSM (optional)						
Smart Energy Management	Export Limitation, Home Energy Management						
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[4]	VDE-AR-N-4105, G59/3, AS-4777,EN 50438 , CEI-021,VDE 0126-1-1, CEI-016[5], 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, Stranded wire 2.5-10 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
					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	-20 - +60[6] (M40 version -40 - +60)						˚C
Cooling	Fan (user replaceable)						
Noise	< 50				< 55		dBA
Protection Rating	IP65 - Outdoor and Indoor						
Mounting	Bracket Provided						

[1] 24.99kVA in the UK
[2] Where permitted by local regulations
[3] Refer to Datasheets -> Communications category in Downloads page for specifications of optional communication options: http://www.solaredge.com/groups/support/downloads
[4] For all standards refer to Certifications category in Downloads page: http://www.solaredge.com/groups/support/downloads
[5] Models SE25K and SE27.6K only
[6] For power de-rating information refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note.pdf

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CE RoHS