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)

/ 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

© SolarEdge Technologies Ltd. All rights reserved. SOLAREDGE, the SolarEdge logo, OPTIMIZED BY SOLAREDGE are trademarks or registered trademarks of SolarEdge Technologies, Inc. All other trademarks mentioned herein are trademarks of their respective owners. Date: 11/2018/V01/ENG ROW. Subject to change without notice.

CE RoHS