



SolarEdge Extended Power Three Phase Inverters

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)



SolarEdge Extended Power Three Phase Inverters 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 Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	3 / N / PE (WYE with Neutral)						V	
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 mm ² , Stranded wire 2.5-10 mm ²				18-25mm / Solid wire 2.5-16 mm ² , Stranded wire 2.5-10 mm ²			
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		mm ²	
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							
Bracket Mounted (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>

