



SolarEdge Extended Power Three Phase Inverters

(Australia) SE15K - SE27.6K



INVERTERS

Specifically designed to work with power optimisers

- 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, DC/AC conversion only
- 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 (Australia) SE15K - SE27.6K⁽¹⁾

	SE15K	SE16K	SE17K	SE25K	SE27.6K	
OUTPUT						
Rated AC Power Output	15000	16000	17000	25000	27600	VA
Maximum AC Power Output	15000	16000	17000	25000	27600	VA
AC Output Voltage - Line to Line / Line to Neutral (Nominal)	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)	23	25.5	26	38	40	A
Residual Current Detector / Residual Current Step Detector	300 / 30					mA
Grids Supported - Three Phase	3 / N / PE (WYE with Neutral); 230 / 400					V
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes					
INPUT						
Maximum DC Power (Module STC)	18750	20000	21250	33750	37250	W
Transformer-less, Ungrounded	Yes					
Nominal DC Input Voltage DC to Gnd	375					
Maximum Input Voltage DC to Gnd	415					
Nominal DC Input Voltage DC+ to DC-	750					Vdc
Maximum Input Voltage DC+ to DC-	830					Vdc
Maximum Input Current	22	23	23	37	40	Adc
Reverse-Polarity Protection	Yes					
Ground-Fault Isolation Detection	700kΩ Sensitivity					
Maximum Inverter Efficiency	98			98.3	98	%
European Weighted Efficiency	97.6	97.7	97.7	98	98	%
Nighttime Power Consumption	< 2.5			< 4		W
ADDITIONAL FEATURES						
Supported Communication Interfaces ⁽²⁾	RS485, Ethernet, Zigbee (optional), Wi-Fi (optional), Built-in GSM (optional)					
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, AS-3100					
Grid Connection Standards ⁽³⁾	VDE-AR-N-4105, G59/3, AS-4777, EN 50438, CEI-021, VDE 0126-1-1, CEI-016 ⁽⁴⁾ , BDEW ⁽⁴⁾					
Emissions	IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12					
RoHS	Yes					
INSTALLATION SPECIFICATIONS						
AC Output	Cable Gland - diameter 15-21					mm
DC Input	2 MC4 pairs		3 MC4 pairs			
DC Input with Safety Unit	N/A		Gland outer diameter 5-10		mm	
			Wire cross section 0.5 - 13.5		mm ²	
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 (M40 version -40 - +60)					°C
Cooling	Fan (user replaceable)					
Noise	< 50		< 55		dBA	
Protection Rating	IP65 - Outdoor and Indoor					
Bracket Mounted (Bracket Provided)						

⁽¹⁾ These specifications apply to inverters with Australian part numbers (SExxxx-AUxxxxxx or SExxxx-ER-01-AUS)

⁽²⁾ Refer to Datasheets -> Communications category in Downloads page for specifications of optional communication options: <http://www.solaredge.com/groups/support/downloads>

⁽³⁾ For all standards refer to Certifications category in Downloads page: <http://www.solaredge.com/groups/support/downloads>

⁽⁴⁾ Model SE27.6K only

