

Three Phase Inverter For Australia

SE15K-SE27.6K



INVERTERS

Specifically designed to work with power optimisers

- // Superior efficiency (98%)
- // 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 (Wi-Fi, ZigBee Gateway, Cellular)
- // IP65 – Outdoor and indoor installation
- // Fixed voltage inverter for longer strings
- // Integrated DC Safety Unit - eliminates the need for external DC isolators

/ Three Phase Inverter for Australia

SE15K - SE27.6K

	SE15K	SE17K	SE25K	SE27.6K	
Applicable to inverters with part numbers	SEXXX-XXXXXBXX4				
OUTPUT					
Rated AC Power Output	15000	17000	24950	27600	VA
Maximum AC Power Output	15000	17000	24950	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	26	38	40	A
Grids Supported - Three Phase	3 / N / PE (WYE with Neutral); 230 / 400				
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes				
INPUT					
Maximum DC Power (Module STC)	20250	22950	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	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	97.6	97.7	98	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 Commissioning	With the SetApp mobile application using built-in Wi-Fi station for local connection				
Smart Energy Management	Export Limitation				
RS485 Surge Protection Plug-in	Supplied with the inverter				
DC SAFETY UNIT					
2-pole Disconnection	1000V / 23A		1000V / 40A		
STANDARD COMPLIANCE					
Safety	IEC62109, AS/NZS3100				
Grid Connection Standards	AS/NZS4777:2015				
Emissions	IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12				
RoHS	Yes				
INSTALLATION SPECIFICATIONS					
AC output conduit size / Wire cross section	19mm minimum / 3-16 mm ²				
DC input conduit size / Wire cross section	19mm minimum / 3-16 mm ²				
Dimensions with Safety Unit (HxWxD)	775 x 315 x 260				mm
Weight	33.7		48		kg
Operating Temperature Range	-40 to +60 ⁽⁴⁾				°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⁾ For power de-rating information refer to: <https://www.solaredge.com/sites/default/files/se-temperature-derating-note.pdf>