

# Three Phase Inverter

## For Australia and New Zealand

SE15K-SE17K



# 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

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### SE15K - SE17K

Applicable to inverters with part numbers	SE15K	SE17K	
	SEXXX-XXXXXBXX4		
<b>OUTPUT</b>			
Rated AC Power Output	15000	17000	VA
Rated/Maximum AC Power Output	15000	17000	VA
AC Output Voltage - Line to Line / Line to Neutral (Nominal)	380 / 220 ; 400 / 230		Vac
AC Output Voltage - Line to Neutral Range	176 - 253 ; 184 - 264		Vac
Grids Supported - Three Phase	3 / N / PE (WYE with Neutral); 230 / 400		
AC Frequency	50/60 ± 5		Hz
Rated Continuous Output Current (per Phase)	23	26	Aac
Maximum Continuous Overcurrent Protection	23	26	Aac
Maximum Output Fault Current	40		Aac
Residual Current Detector / Residual Current Step Detector (rms/ms)	300 / 30		mA
Inrush Current AC (Peak / Duration)	3 / 20		Aac rms / ms
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes		
Total Harmonic Distortion	≤ 3		%
Protective Class	Class I		
Oversvoltage Category	III		
Active Anti-Islanding Method	Slip Mode Frequency Shift		
Power Factor Range	+/-0.8 to 1		
<b>INPUT</b>			
Maximum DC Power (Module STC)	20250	22950	W
Transformer-less, Ungrounded	Yes		
Operating Voltage Range DC+ to DC-	680-830		Vdc
Minimum Input Voltage DC to Gnd	340		Vdc
Maximum Input Voltage DC to Gnd	415		Vdc
Maximum Input Voltage DC+ to DC-	830		Vdc
Maximum Operating Input Current	22	23	Adc
Short Circuit Current From The PV Array	23		Adc
Maximum Back-Feed Current	0		Adc
Oversvoltage Category	II		
Reverse-Polarity Protection	Yes		
Ground-Fault Isolation Detection	700kΩ Sensitivity		
Protective Class	Class I		
Oversvoltage Category	II		
Maximum Inverter Efficiency	98		%
European Weighted Efficiency	97.6	97.7	%
Nighttime Power Consumption	< 2.5		W
<b>ADDITIONAL FEATURES</b>			
Supported Communication Interfaces <sup>(2)</sup>	RS485, Ethernet, Wi-Fi (requires antenna) <sup>(3)</sup> , 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		
Maximum Altitude	2000		m
Inverter Topology	Non-Isolated Photovoltaic Inverter		
<b>DC SAFETY UNIT</b>			
DC Disconnection	Provided		
<b>STANDARD COMPLIANCE</b>			
Safety	IEC62109, AS/NZS3100		
Grid Connection Standards	AS/NZS 4777.2:2020		
Emissions	IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12		
RoHS	Yes		

<sup>(1)</sup> Where permitted by local regulations

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

<sup>(3)</sup> 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>

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Applicable to inverters with part numbers	SE15K	SE17K	
	SEXK-XXXXXBXX4		
<b>INSTALLATION SPECIFICATIONS</b>			
AC Output Conduit Size / Wire Cross Section	19mm minimum / 3-16 mm <sup>2</sup>		
DC Input Conduit Size / Wire Cross Section	19mm minimum / 3-16 mm <sup>2</sup>		
Dimensions with Safety Unit (H x W x D)	775 x 315 x 260		mm
Weight	33.7		kg
Operating Temperature Range	-40 to +60 <sup>(4)</sup>		°C
Maximum Altitude	2000		m
Cooling	Fan (user replaceable)		
Noise	< 50		dB(A)
Protection Rating	IP65 - Outdoor and Indoor		
Mounting	Brackets provided		
<b>ADDITIONAL INFORMATION</b>			
Manufacturing Countries	China, Vietnam, Hungary		

<sup>(4)</sup> For power de-rating information refer to: <https://www.solaredge.com/sites/default/files/se-temperature-derating-note.pdf>