Three Phase Residential Inverter
for Australia

SE5K-AUB / SE7K-AUB / SE8.25K-AUB / SE10K-AUB

12-25 YEAR WARRANTY

The ideal solution for residential PV installations

- Provides maximum design flexibility, enabling fewer, longer strings

- Supports optional smart energy devices and expansion of system capabilities

- Single vendor solution for seamless operation of all system components, and one address for warranty and service issues

- Built-in module-level monitoring for greater visibility into system performance

- Excellent reliability with standard 12-year warranty (extendable to 20 or 25 years)

- Advanced safety features, including SafeDC™ and integrated arc fault protection

- Quick inverter commissioning directly from a smartphone using SolarEdge's SetApp

- Suitable for outdoor or indoor installations

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APPLICABLE TO INVERTERS WITH PART NUMBER	SE5K-AUB	SE7K-AUB	SE8.25K-AUB	SE10K-AUB	
			SEXXK- AUBTEBEU4		
OUTPUT					
Rated AC Power Output	5000	7000	8250	10000	VA
Maximum AC Power Output	5000	7000	8250	10000	VA
AC Output Voltage - Line to Line / Line to Neutral (Nominal)	400 / 230				Vac
AC Output Voltage - Line to Neutral Range	184 - 264.7				Vac
AC Frequency	50 ± 5%				Hz
Maximum Continuous Output Current (per Phase)	8	11.5	13.5	16	A
Grids Supported - Three Phase	3 / N / PE (WYE with Neutral)				
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes				
INPUT					
Maximum DC Power (Module STC)	6750	9450	11135	13500	W
Transformer-less, Ungrounded	Yes				
Maximum Array Input Voltage	450				Vdc
Maximum Voltage to Earth (DC to GND)	450				Vdc
Maximum Input Current	14	19.5	22	28	Adc
Reverse-Polarity Protection	Yes				
Ground-Fault Isolation Detection	350kΩ Sensitivity				
Maximum Inverter Efficiency	97.8				%
European Weighted Efficiency	96.3	97	97.1	97.4	%
Nighttime Power Consumption	< 4				W
Short Circuit Current from the PV Array	14	19.5	22	28	Adc
ADDITIONAL FEATURES					
Supported Communication Interfaces[1]	2 x RS485, Ethernet, Wi-Fi[2], ZigBee for Smart Energy (optional)[3]				
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi access point for local connection				
Smart Energy Management[4]	Export Limitation, Home Energy Management (Device Control)				
STANDARD COMPLIANCE					
Safety	IEC62109, AS/NZS3100				
Grid Connection Standards	AS/NSZ 4777.2:2015, EN 50549-1				
Emissions	IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12				
RoHS	Yes				
INSTALLATION SPECIFICATIONS					
AC Output Conduit Size / Wire Cross Section	20mm minimum / 3-13mm²				
DC Input Conduit Size / Wire Cross Section	20mm conduit size minimum				
DC Input	Single DC terminal block				
Dimensions with Safety Switch (H x W x D)	775 x 315 x 260				mm
Weight	30				kg
Operating Temperature Range	-40 to +60[5]				℃
Cooling	Fan (user replaceable)				
Noise	< 50				dBA
Protection Rating	IP65 - outdoor and indoor				
Mounting	Bracket provided				
Number of Power Optimisers per String	8[6]/9 to 25				
Maximum Power per String	5625				W

(1) Refer to Datasheets -> Communications category in Downloads page for specifications of optional communication options: http://www.solaredge.com/groups/support/downloads
(2) Wi-Fi connectivity requires connection of an additional Wi-Fi component, ordered separately. For more details ask your SolarEdge sales person or refer to: https://www.solaredge.com/aus/products/communication
(3) For more information refer to: https://www.solaredge.com/sites/default/files/se-zigbee-plug-in-wireless-communication-for-setapp-datasheet-au.pdf
(4) An export meter is required for export limitation and most of home energy management functions
(5) For power de-rating information refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note.pdf
(6) When using P404/P485/P505 power optimisers only, minimum required per string is eight

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