

# Three Phase Residential Inverter

## For Australia and New Zealand

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



### The ideal solution for residential PV installations

- 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	
SEXXX- AUBTEBU4					
<b>OUTPUT</b>					
Rated AC Power Output	5000	7000	8250	10000	VA
Maximum AC Power Output	5000	7000	8250	10000	VA
Rated Current (per phase)	8	12	14	16	a.cA
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	12	14	16	A
Maximum Inrush Current AC (peak / duration)	3 / 20				
Maximum Output Fault Current	26	51			A
Maximum Output Continuous Overcurrent Protection	8	11.5	14	16	A
Overvoltage Category (Mains)	OVC III				
Overvoltage Category (PV)	OVC II				
Protective Class	I				
Grids Supported - Three Phase	3 / N / PE (WYE with Neutral)				
Power Factor Range	1 (adjustable from -0.8 to +0.8)				
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes				
Active Anti-Islanding Method	Slip mode frequency shift				
<b>INPUT</b>					
Maximum DC Power (Module STC)	6750	9450	11135	13500	W
Transformer-less, Ungrounded	Yes				
Maximum Array Input Voltage	450				Vdc
PV Input Operating Voltage Range	375 - 450				d.c V
Maximum Voltage to Earth (DC to GND)	450				Vdc
Maximum Input Current	14	20	23	28	Adc
Maximum Inverter Backfeed Current to Array	0				
Reverse-Polarity Protection	Yes				
Ground-Fault Isolation Detection	350kΩ Sensitivity				
Maximum Inverter Efficiency	97.8				%
Isc PV (absolute maximum)	14	20	23	28	d.c A
European Weighted Efficiency	96.3	97	97.1	97.4	%
Nighttime Power Consumption	< 4				W
Inverter Topology	Non-isolated				
Short Circuit Current from the PV Array	14	20	23	28	Adc
<b>ADDITIONAL FEATURES</b>					
Supported Communication Interfaces <sup>(1)</sup>	2 x RS485, Ethernet, Wi-Fi <sup>(2)</sup> , ZigBee for Smart Energy (optional) <sup>(3)</sup>				
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi access point for local connection				
Smart Energy Management <sup>(4)</sup>	Export Limitation, Home Energy Management (Device Control)				
<b>STANDARD COMPLIANCE</b>					
Safety	IEC62109, AS/NZS3100				
Grid Connection Standards	AS/NSZ 4777.2:2020, EN 50549-1				
Emissions	IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12				
RoHS	Yes				

(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

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<b>INSTALLATION SPECIFICATIONS</b>				
AC Output Conduit Size / Wire Cross Section	20mm minimum / 3-13mm <sup>2</sup>			
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 <sup>(5)</sup>			°C
Cooling	Fan (user replaceable)			
Noise	< 50			dBA
Protection Rating	IP65 - outdoor and indoor			
Mounting	Bracket provided			
Manufacturing Countries	China / Vietnam / Hungary			

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