

SolarEdge Residential Three Phase Solar Inverter

For Australia and New Zealand

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

INVERTER



The ideal solution for residential PV installations

- Supports optional smart energy devices and expansion of system capabilities
- Ready for use with energy storage – one inverter for both PV system and battery energy storage
- 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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	SE5K-AUB	SE7K-AUB	SE8.25K-AUB	SE10K-AUB	
Applicable to inverters with part number					
SEXK- AUBTEBU4					
OUTPUT					
Rated AC Power Output	5000	7000	8250	10,000	VA
Maximum AC Power Output	5000	7000	8250	10,000	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 ± 0.8				
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes				
Active Anti-Islanding Method	Slip mode frequency shift				
INPUT – DC (PV AND BATTERY)					
Maximum DC Power (Module STC)	6750	9450	11,135	13,500	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
BATTERY STORAGE⁽¹⁾					
Supported Battery Types	SolarEdge Home Battery 400V, using SolarEdge Home Network only				
Number of Batteries per Inverter	Single battery				
Continuous Power (Charge / Discharge)	Up to 5kW				
ADDITIONAL FEATURES					
Supported Communication Interfaces ⁽²⁾	2 x RS485, Ethernet, Wi-Fi ⁽³⁾ , ZigBee for Smart Energy (optional) ⁽⁴⁾				
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi access point for local connection				
Smart Energy Management ⁽⁵⁾	Export Limitation, Home Energy Management (Device Control)				
STANDARD COMPLIANCE					
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) Requires firmware version 4.21.1xx and up, for up to 2 AC coupled inverters per site, each with a single battery.

(2) Specifications of optional communication options are available in the [Knowledge Center](#).

(3) Wi-Fi connectivity requires connection of an additional Wi-Fi component, ordered separately. For details, ask your SolarEdge salesperson or check the [Communication product page](#).

(4) For details, see the [Zigbee Plugin for Inverters with SetApp Configuration](#) datasheet.

(5) An export meter is required for export limitation and most of home energy management functions.

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	SE5K-AUB	SE7K-AUB	SE8.25K-AUB	SE10K-AUB
Applicable to inverters with part number	SEXXX- AUBTEBEU4			
INSTALLATION SPECIFICATIONS				
AC Output Conduit Size / Wire Cross Section	20mm minimum / 3 – 13mm ²			
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 ⁽⁶⁾			°C
Cooling	Fan (user replaceable)			
Noise	< 50			dBA
Protection Rating	IP65 – outdoor and indoor			
Mounting	Bracket provided			
Manufacturing Countries	China / Vietnam / Hungary			

(6) For power derating information, see the [Temperature Derating](#) technical note.

SolarEdge is a global leader in smart energy technology. By leveraging world-class engineering capabilities and with a relentless focus on innovation, SolarEdge creates smart energy solutions that power our lives and drive future progress.

SolarEdge developed an intelligent inverter solution that changed the way power is harvested and managed in photovoltaic (PV) systems. The SolarEdge DC optimized inverter maximizes power generation while lowering the cost of energy produced by the PV system.

Continuing to advance smart energy, SolarEdge addresses a broad range of energy market segments through its PV, storage, EV charging, UPS, and grid services solutions.

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