

Three Phase Inverter For Australia and New Zealand

SE25K / SE30K / SE33.3K



Specifically designed to work with power optimizers

- / Fixed voltage inverter for superior efficiency (98.3%) and longer strings
- / Quick and easy inverter commissioning directly from a smartphone using the SolarEdge SetApp
- / Small, lightest in its class, and easy to install
- / Optional Type 2 DC and AC surge protection, to better withstand lightning events
- / Built-in module-level monitoring with Ethernet or wireless communication for full system visibility
- / IP65 outdoor and indoor installation
- / Smart Energy Management control
- / Future-ready for the SolarEdge energy storage solution
- / Integrated DC Safety Unit - eliminates the need for external DC isolators

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Applicable to inverters with part number	SEXK-AUX0IXXX			UNITS
	SE25K	SE30K	SE33.3K	
OUTPUT				
Rated AC Power Output	25000	30000	33300	W
Rated Maximum Apparent AC Output Power	25000	30000	33300	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
AC Output Line Connections	3W + PE, 4W + PE			
Grids Supported - Three Phase	WYE: TN-C, TN-S, TN-C-S, IT; Delta: IT			
AC Frequency	50 ± 5%			Hz
Rated Continuous Output Current (per Phase)	38	43.5	48.25	Aac
Maximum Continuous Overcurrent Protection	38	43.5	48.25	Aac
Residual Current Detector / Residual Current Step Detector	100 / 30			mA
Inrush current AC (Peak / Duration)	3.6 / 20			Aac rms / ms
Maximum Residual Current Injection ⁽¹⁾	100			mA
Maximum Output Fault Current	54	66	71	Aac
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes			
Total Harmonic Distortion	< 3			%
Protective Class	Class I			
Overvoltage Category	III			
Active Anti-Islanding Method	Slip Mode Frequency Shift			
Power Factor Range	+/-0.8 to 1			
INPUT				
Maximum DC Power (Module STC)	43750	52500	58275	W
Transformer-less, Ungrounded	Yes			
Operating Voltage Range DC+ to DC-	680 – 1000			Vdc
Minimum Input Voltage DC to Gnd	340			Vdc
Maximum Input Voltage DC to Gnd	415			Vdc
Maximum Input Voltage DC+ to DC-	1000			Vdc
Maximum Operating Input Current	37	43.5	48.25	Adc
Short Circuit Current From The PV Array	48.25			Adc
Maximum Back-Feed Current	0			Adc
Overvoltage Category	II			
Reverse-Polarity Protection	Yes			
Ground-Fault Isolation Detection	167kΩ Sensitivity ⁽²⁾			
Protective Class	Class I			
Overvoltage Category	II			
Maximum Inverter Efficiency	98.3			%
European Weighted Efficiency	98			%
Nighttime Power Consumption	< 4			W
ADDITIONAL FEATURES				
Supported Communication Interfaces	2 x RS485, Ethernet, Wi-Fi ⁽³⁾			
Smart Energy Management	Export Limitation			
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi access point for local connection			
Arc Fault Protection	Integrated, User Configurable (According to UL1699B)			
RS485 Surge Protection	Supplied with the inverter			
DC / AC Surge Protection	Type II, field replaceable, Optional			
Maximum Altitude	2000			m
Inverter Topology	Non-Isolated Photovoltaic Inverter			
VAR at Night ⁽⁴⁾	Yes			
DC SAFETY UNIT				
DC Disconnect	Provided			
STANDARD COMPLIANCE				
Safety	IEC 63027; IEC 62109, AS/NZS3100			
Grid Connection Standards ⁽⁵⁾	AS/NZS4777:2020			
Emissions	IEC61000-6-2, IEC61000-6-3 Class A, IEC61000-3-11, IEC61000-3-12			
RoHS	Yes			

(1) If an external RCD is required, its trip value must be ≥ 100mA.

(2) Where permitted by local regulations.

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

(4) For details, see [Set Volt Ampere at Night](#).

(5) For all standards refer to the [Knowledge Center](#).

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INSTALLATION SPECIFICATIONS				
AC Output Conduit Size / Wire Cross Section	20 mm minimum / 4-16 mm ²			
DC Input Conduit Size / Wire Cross Section	20 mm minimum / 6-35 mm ²			
Dimensions with Safety Unit (H x W x D)	808 x 317 x 300			mm
Weight with Safety Unit	35			kg
Operating Temperature Range	-40 to +60 ⁽⁶⁾			°C
Cooling	Fan (user replaceable)			
Noise	< 62			dBA
Protection Rating	IP65 - Outdoor and Indoor			
Mounting	Bracket Provided			
ADDITIONAL INFORMATION				
Manufacturing Countries	China, Vietnam, Hungary			

(6) For power de-rating information, refer to the [Temperature De-rating 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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