

Three Phase Inverter

For Australia and New Zealand

SE25K / SE30K / SE33.3K



INVERTERS

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-AUX01XXX			
	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)	37500	45000	50000	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	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			
DC SAFETY UNIT				
DC Disconnect	Provided			
STANDARD COMPLIANCE				
Safety	IEC62109, AS/NZS3100			
Grid Connection Standards ⁽⁴⁾	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 sales person or refer to: <https://www.solaredge.com/aus/products/communication>

(4) For all standards refer to the Certifications category in the Resource Library: <http://www.solaredge.com/groups/support/downloads>

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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		
Weight with Safety Unit	35		
Operating Temperature Range	-40 to +60 ⁽⁵⁾		
Cooling	Fan (user replaceable)		
Noise	< 62		
Protection Rating	IP65 - Outdoor and Indoor		
Mounting	Bracket Provided		
ADDITIONAL INFORMATION			
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>