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	SEXXK-AUX0IXXX					
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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%	<u></u>	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		
	<u> </u>					
nrush current AC (Peak / Duration)		3.6 / 20		rms / n		
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		<u>≤</u> 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		
ransformer-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						
Reverse-Polarity Protection	Yes					
Ground-Fault Isolation Detection	167k Ω 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		
nverter Topology	1	Non-Isolated Photovoltaic Inverter				
DC SAFETY UNIT						
DC Disconnect		Provided				
STANDARD COMPLIANCE	1			ı		
STAINDAND CONFLIANCE		15.550100 A.S.A.1750100				
		IEC 67/100 VCVVIVC3/100				
Safety		IEC62109, AS/NZS3100 ΔS/NZS4777:2020				
Safety Grid Connection Standards ⁽⁴⁾ Emissions	IECE1000 6 2	AS/NZS4777:2020 EC61000-6-3 Class A , IEC61000-3-1	1 IEC61000-2-12			

⁽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			mm
Weight with Safety Unit	35			kg
Operating Temperature Range	-40 to+60 ⁽⁵⁾			°C
Cooling	Fan (user replaceable)			
Noise	< 62			dBA
Protection Rating	IP65 - Outdoor and Indoor			
Mounting	Bracket Provided			
ADDITIONAL INFORMATION				
Manufacturing Countries	China, Vietnam, Hungary			

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