

# Three Phase Inverter

## For Thailand

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
- Integrated type 2 DC and AC surge protection, to better withstand surges caused by lightning or other events
- Optional RS485 surge protection
- Built-in module-level monitoring with Ethernet, wireless or cellular communication for full system visibility
- Advanced safety features - integrated arc fault protection and built-in rapid shutdown
- IP65 for outdoor and indoor installations
- Integrated DC Safety Unit - eliminates the need for external DC isolators
- Future-proofed for SolarEdge energy storage solutions

# / Three Phase Inverter

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Applicable to inverters with part number	SEXK-THROIXXXX		
	SE30K		SE33.3K
<b>OUTPUT</b>			
Rated AC Active Power Output	30000		33300 W
Maximum AC Apparent Output Power	30000		33300 VA
AC Output Voltage - Line to Line / Line to Neutral (Nominal)	380 / 220 ; 400 / 230		Vac
AC Output Voltage - Line to Line / Line to Neutral	304 - 437 / 176 - 253 ; 320 - 460 / 184 - 264.5		Vac
AC Frequency	50/60 ± 5%		Hz
Maximum Continuous Output Current (per Phase)	48.25		Aac
AC Output Line Connections	3W + PE, 4W + PE		
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes		
Total Harmonic Distortion	≤ 3		%
Power Factor Range	+/-0.8 to 1		
Maximum Residual Current Injection <sup>(1)</sup>	100		mA
<b>INPUT</b>			
Maximum DC Power (Module STC)	50000		W
Transformer-less, Ungrounded	Yes		
Maximum Input Voltage DC+ to DC-	1000		Vdc
Operating Voltage Range	680-1000		Vdc
Maximum Input Current	48.25		Adc
Reverse-Polarity Protection	Yes		
Ground-Fault Isolation Detection	167kΩ Sensitivity <sup>(2)</sup>		
Maximum Inverter Efficiency	98,3		%
European Weighted Efficiency	98		%
Nighttime Power Consumption	< 4		W
<b>ADDITIONAL FEATURES</b>			
Supported Communication Interfaces	2 x RS485, Ethernet, Wi-Fi (optional) <sup>(3)</sup> , Cellular (optional)		
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)		
Rapid Shutdown	Built-in		
RS485 Surge Protection	Optional		
DC Surge Protection	Type II, field replaceable, integrated		
AC Surge Protection	Type II, field replaceable, integrated		
<b>DC SAFETY UNIT</b>			
2-pole Disconnection	1000V / 48,25A		
DC Fuses (Single Pole)	Integrated, 25A		
Compliance	UTE-C15-712-1		
<b>STANDARD COMPLIANCE</b>			
Safety	IEC-62109, AS3100		
Grid Connection Standards <sup>(4)</sup>	VDE-AR-N-4105, AS-4777, EN50438, CEI-021, VDE 0126-1-1, CEI-016, EN50549-1, EN50549-2, VDE-AR-N-4110, TOR Erzeuger Typ A, G99, G99 (NI), VFR 2019		
Emissions	IEC61000-6-2, IEC61000-6-3 Class A, IEC61000-3-11, IEC61000-3-12		
RoHS	Yes		
<b>INSTALLATION SPECIFICATIONS</b>			
AC Output Gland Diameter / Line cross section / PE cross section	Cable diameter 19 - 28 mm / 4 - 16 mm <sup>2</sup> / 4 - 16 mm <sup>2</sup>		
DC Input with Safety Unit	4 Strings: Gland: Cable outer diameter 5 - 10 mm / Wire cross section 2,5 - 16 mm <sup>2</sup>		
Dimensions with Safety Unit (H x W x D)	819 x 317 x 300 (DC Gland)		mm
Weight with Safety Unit	36,5		kg
Operating Temperature Range	-40 to +60 <sup>(5)</sup>		°C
Cooling	Fan (user replaceable)		
Noise	< 62		dBA
Protection Rating	IP65 - outdoor and indoor		
Mounting	Brackets provided		

(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/products/communication>

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

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