

Three Phase Inverter

For Thailand

SE30K

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 surge protection, to better withstand surges caused by lightning or other events
- Optional RS485 and type 2 AC 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 optional 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

For Thailand

SE30K

Applicable to inverters with part number	SE30K-THR0IXXXX	
	SE30K	
OUTPUT		
Rated AC Active Power Output	30000	W
Maximum AC Apparent Output Power	30000	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 ⁽¹⁾	100	mA
INPUT		
Maximum DC Power (Module STC)	45000	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 ⁽²⁾	
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 (optional) ⁽³⁾ , 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 ⁽⁴⁾ (Automatic upon AC Grid Disconnect)	
RS485 Surge Protection	Optional	
DC Surge Protection	Type II, field replaceable, integrated	
AC Surge Protection	Type II, field replaceable, integrated	
DC SAFETY UNIT (OPTIONAL)		
2-pole Disconnection	1000V / 48,25A	
DC Fuses (Single Pole)	Optional, 25A	
Compliance	UTE-C15-712-1	
STANDARD COMPLIANCE		
Safety	IEC-62109, AS3100	
Grid Connection Standards ⁽⁵⁾	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	
INSTALLATION SPECIFICATIONS		
AC Output Gland Diameter / Line cross section / PE cross section	Cable diameter 19-28 mm / 4 - 16 mm ² / 4 - 16 mm ²	
DC Input with Safety Unit ⁽⁶⁾⁽⁷⁾	4 MC4 pairs	
	4 Strings: Gland: Cable outer diameter 5 - 10 mm / Wire cross section 2,5 - 16 mm ²	
Dimensions (H x W x D)	550 x 317 x 273	mm
Dimensions with Safety Unit (H x W x D)	819 x 317 x 300 (DC Gland)	mm
Weight	32	kg
Weight with Safety Unit	36,5	kg
Operating Temperature Range	-40 to +60 ⁽⁸⁾	°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) Inverters with rapid shutdown part number: SExxK-xxRxxxxx

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

(6) DC input is available with MC4 or Gland connectors under the inverter part number. For more information, contact SolarEdge

(7) Only MC4 connectors manufactured by Stäubli are approved for use

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