

Three Phase Inverter For 220V/230V Line to Line Grids

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 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 lightning 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 – outdoor and indoor installation
- / Optional integrated DC Safety Unit - eliminates the need for external DC isolators
- / Future-proof for SolarEdge energy storage solution

/ Three Phase Inverter

For 220V/230V Line to Line Grids

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Applicable to inverters with part number	SEXK-BEX0IXXXX			Units
	SE25K	SE30K	SE33.3K	
OUTPUT				
Rated AC Active Power Output	14500	17300	19200	W
Maximum AC Apparent Output Power	14500	17300	19200	VA
AC Output Voltage – Line to Line / Line to Neutral (Nominal)	220 / 127; 230 / 130			Vac
AC Output Voltage – Line to Line / Line to Neutral	184 – 264.5			Vac
AC Frequency	50/60 ± 5%			Hz
Maximum Continuous Output Current (per Phase)	36.25	43.5	48.25	Aac
AC Output Line Connections	3W + PE (Corner grounding not supported)			
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes			
Total Harmonic Distortion	< 3			%
Power Factor Range	+/-0.2 to 1			
Maximum Residual Current Injection ⁽¹⁾	100			mA
INPUT				
Maximum DC Power (Module STC)	25375	30275	33600	W
Transformer-less, Ungrounded	Yes			
Maximum Input Voltage DC+ to DC-	600			Vdc
Operating Voltage Range	370 – 600			Vdc
Maximum Input Current	36.25	43.5	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	Optional ⁽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, optional			
VAR at Night ⁽⁵⁾	Yes			
DC SAFETY UNIT (OPTIONAL)				
2-pole Disconnection	1000V / 48.25A			
DC Fuses (Single Pole)	Optional, 25A / 30A			
Compliance	UTE-C15-712-1			
STANDARD COMPLIANCE				
Safety	IEC 63027; IEC 62109, AS3100			
Grid Connection Standards ⁽⁶⁾	EN50549-1			
Emissions	IEC 63027; IEC 61000-6-2; IEC 61000-6-3 Class A; IEC 61000-3-11; IEC 61000-3-12			
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 ⁽⁷⁾	4 MC4 pairs			
DC Input with Safety Unit ⁽⁷⁾⁽⁸⁾	4 MC4 pairs			
DC Input with Safety Unit ⁽⁷⁾⁽⁸⁾	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)	836 x 317 x 300 (DC MC4); 819 x 317 x 300 (DC Gland)			mm
Weight	32			kg
Weight with Safety Unit	36.5			kg
Operating Temperature Range	-40 to +60 ⁽⁹⁾			°C
Cooling	Fan (user replaceable)			
Noise	< 62			dBA
Protection Rating	IP65 – outdoor and indoor			
Mounting	Brackets provided			mm

(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 the [SolarEdge website](#).

(4) Inverter with rapid shutdown part number: SExxK-xxRxxxxx.

(5) For details, see [Set Volt-Ampere at Night – Application Note](#).

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

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

(8) Only MC4 connectors manufactured by Staubli are approved for use.

(9) For power de-rating information refer to the [Temperature De-rating Technical Note](#).