

Three Phase Inverter

SE25K / SE33.3K / SE40K



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 RS485 and type 2 DC and AC Surge Protection, to better withstand surges caused by lightning or other events
- Built-in module-level monitoring with Ethernet, wireless or cellular communication (optional) for full system visibility
- IP65 – outdoor and indoor installation
- Optional integrated DC Safety Unit - eliminates the need for external DC isolators
- Future-ready for SolarEdge energy storage solution

/ Three Phase Inverter

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Applicable to inverters with part number	SEXxK-RWXXIXXXX			Units
	SE25K	SE33.3K	SE40K	
OUTPUT				
Rated AC Active Power Output	25000	33300	40000	W
Maximum AC Apparent Output Power	25000	33300	40000	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 – 478 / 184 – 264.5		422.5 – 529 / 244 – 305	Vac
AC Frequency	50/60 ± 5%			Hz
Maximum Continuous Output Current (per Phase)	36.25	48.25		Aac
AC Output Line Connections	3W + PE, 4W + PE			
Supported Grids	WYE: TN-C, TN-S, TN-C-S, TT, IT; Delta: IT			
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)	43750	58275	70000	W
Transformer-less, Ungrounded	Yes			
Maximum Input Voltage DC+ to DC-	950	1000		Vdc
Operating Voltage Range	680 – 1000			Vdc
Maximum Input Current	36.25	48.25		Adc
Reverse-Polarity Protection	Yes			
Ground-Fault Isolation Detection	167kΩ Sensitivity ⁽²⁾			
Maximum Inverter Efficiency	98.3		98.1	%
European Weighted Efficiency	98			%
Nighttime Power Consumption	< 4			W
ADDITIONAL FEATURES				
Supported Communication Interfaces ⁽³⁾	2 x RS485, Wi-Fi (optional), 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	Built-in, 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)				
DC Disconnect	Integrated in the DC safety unit			
DC Fuses (Single Pole)	Optional, 25A/ 30A			
STANDARD COMPLIANCE				
Safety	IEC 63027; IEC 62109-1, IEC62109-2			
Grid Connection Standards ⁽⁶⁾	VDE-AR-N-4105, VDE-AR-N-4110, AS-4777, EN 50549-1, EN 50549-2, CEI 0-21, VDE 0126-1-1, CEI 0-16			
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 ⁽⁷⁾	4 MC4 pairs			
DC Input with Safety Unit	4 Strings: Gland: Cable outer diameter 5 – 10 mm / Wire cross section 2.5 – 16 mm ²			
Dimensions (H x W x D)	558 x 328 x 273			mm
Dimensions with Safety Unit (H x W x D)	839 x 328 x 300			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) For specifications of optional communication options, see the [SolarEdge website](#).

(4) Inverters 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) Only MC4 connectors manufactured by Stäubli are approved for use.

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