

## Three Phase Inverter For Europe

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 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 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-ready for SolarEdge energy storage solution

# / Three Phase Inverter

## For Europe

### SE30K / SE33.3K

	SE30K	SE33.3K	
<b>Applicable to inverters with part number</b>	<b>SEXXK-XXX0IXXXX</b>		
<b>OUTPUT</b>			
Rated AC Power Output	29990	33300	W
Maximum apparent AC Output Power	29990	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)	43.5	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		
<b>INPUT</b>			
Maximum DC Power (Module STC)	45000	50000	W
Transformer-less, Ungrounded	Yes		
Maximum Input Voltage DC+ to DC-	1000		Vdc
Nominal Input Voltage DC+ to DC-	750		Vdc
Maximum Input Current	43.5	48.25	Adc
Reverse-Polarity Protection	Yes		
Ground-Fault Isolation Detection	150kΩ Sensitivity <sup>(1)</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 (requires an antenna), 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 <sup>(2)</sup> (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		
<b>DC SAFETY UNIT (OPTIONAL)</b>			
2-pole Disconnection	1000V / 48.25A		
DC Fuses (Single Pole)	Optional, 25A		
Compliance	UTE-C15-712-1		
<b>STANDARD COMPLIANCE</b>			
Safety	IEC-62103 (EN50178), IEC-62109, AS3100		
Grid Connection Standards <sup>(3)</sup>	VDE-AR-N-4105, G59/3, AS-4777, EN 50438, CEI-021, VDE 0126-1-1, CEI-016, BDEW		
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 <sup>(4)(5)</sup>	4 MC4 pairs		
DC Input with Safety Unit <sup>(4)(5)</sup>	4 MC4 pairs		
	4 Strings: Gland: Cable outer diameter 5 - 10 mm / Wire cross section 2.5 - 16mm <sup>2</sup>		
	Single pair: Gland: Cable outer diameter 9 - 16 mm / Wire cross section 6 - 35mm <sup>2</sup>		
Dimensions (HxWxD)	550 x 317 x 273		mm
Dimensions with Safety Unit (HxWxD)	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 <sup>(6)</sup>		°C
Cooling	Fan (user replaceable)		
Noise	< 62		dBA
Protection Rating	IP65 - Outdoor and Indoor		
Mounting	Bracket Provided		

(1) Where permitted by local regulations

(2) Inverter with rapid shutdown part number: SEXXK-xxRxxxxx

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

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

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

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