Three Phase Inverter

SE25K / SE33.3K / SE40K



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
- 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

SE25K / SE33.3K / SE40K

A collection to the colors of	SEXXK-RWXXIXXXX			
Applicable to inverters with part number	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)		: 400 / 230	480 / 277	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	30: 13: 7 1: 6 233 7	50/60 ± 5%	1.22.3 323 / 2 1 1 303	Hz
Maximum Continuous Output Current (per Phase)	36.25	· · · · · · · · · · · · · · · · · · ·	3.25	Aad
AC Output Line Connections	30.23	3W + PE, 4W + PE	5.25	7101
Supported Grids	\//\	E: TN-C, TN-S, TN-C-S, TT, IT; Delt	ra: IT	
Utility Monitoring, Islanding Protection, Configurable Power Factor,	***	L. 114 C, 114 S, 114 C S, 11, 11, Dell	.a. 11	
Country Configurable Thresholds		Yes		
Total Harmonic Distortion		<u><</u> 3		%
Power Factor Range		+/-0.8 to 1		
Maximum Residual Current Injection ⁽¹⁾	100		m/	
INPUT		100		1117
	27500	F0000	60000	141
Maximum DC Power (Module STC)	37500	50000	60000	W
Transformer-less, Ungrounded		Yes		
Maximum Input Voltage DC+ to DC-		1000		Vd
Nominal Input Voltage DC+ to DC-		50	850	Vd
Maximum Input Current	36.25		3.25	Ac
Reverse-Polarity Protection		Yes		
Ground-Fault Isolation Detection		167kΩ Sensitivity ⁽²⁾		
Maximum Inverter Efficiency	98	3.3	98.1	%
European Weighted Efficiency		98		%
Nighttime Power Consumption		< 4		W
ADDITIONAL FEATURES				
Supported Communication Interfaces ⁽³⁾	2 x R	S485, Wi-Fi (optional), Cellular (op	tional)	
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, optional			
AC Surge Protection	Type II, field replaceable, optional			
3		туре п, пета гергасеавте, орнопаг		
DC SAFETY UNIT (OPTIONAL)		The state of the s		
DC Disconnect	Integrated in the DC safety unit			
DC Fuses (Single Pole)		Optional, 25A		
STANDARD COMPLIANCE				
Safety	IEC-62109-1, IEC-62109-2			
Grid Connection Standards ⁽⁵⁾	VDE-AR-N-4105, VDE-AR-N-4110, AS-4777, EN 50549-1, EN 50549-2, CEI-021, VDE 0126-1-1, CEI-016			
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 dia	meter 19 - 28 mm / 4 - 16 mm² / 4	1 - 16 mm²	
DC Input ⁽⁶⁾	4 MC4 pairs			
DC Input with Safety Unit	4 Strings: Gland: Cable outer diameter 5 - 10 mm / Wire cross section 2.5 - 16mm ²			
Dimensions (H x W x D)	<u> </u>	558 x 328 x 273		mr
Dimensions with Safety Unit (H x W x D)	839 x 328 x 300		mr	
Weight		32		kg
Weight with Safety Unit	36.5		kg	
Operating Temperature Range		-40 to +60 ⁽⁷⁾		°C
Cooling		Fan (user replaceable)		4D
Noise		< 62		dB.
Protection Rating		IP65 - outdoor and indoor		
Mounting		Brackets provided		

⁽¹⁾ If an external RCD is required, its trip value must be \geq 100mA



⁽²⁾ Where permitted by local regulations

⁽³⁾ Refer to Datasheets -> Communications category on Downloads page for specifications of optional communication options: https://www.solaredge.com/products/communication

⁽⁴⁾ Inverters with rapid shutdown part number: SExxK-xxRxxxxxx

 $⁽⁵⁾ For all standards \ refer \ to \ Certifications \ category \ in \ Downloads \ page: \ https://www.solaredge.com/downloads\#/downloads \ page: \ https://www.solaredge.com/downloads#/d$

⁽⁶⁾ Only MC4 connectors manufactured by Stäubli are approved for use

⁽⁷⁾ For power de-rating information refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note.pdf