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

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Applicable to inverters with part number	SEXXK-RWXXIXXXX			
	SE25K SE33.3K SE40K			
OLITRUIT	SEESIK	5255.51t	32 1010	
OUTPUT	05000	2222	10000	
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)		0;400/230	480 / 277	Va
AC Output Voltage - Line to Line / Line to Neutral	304 - 437 / 1/6 - 253	; 320 - 478 / 184 - 264.5	422.5 - 529 / 244 - 305	Va
AC Frequency	25.05	50/60 ± 5%	10.05	Hz
Maximum Continuous Output Current (per Phase)	36.25 48.25			Aa
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		<u><</u> 3		%
Power Factor Range	+/-0.2 to 1			/0
Maximum Residual Current Injection ⁽¹⁾	100			m/
INPUT		100		1117
Maximum DC Power (Module STC)	43750	58275	70000	V
	43/30		70000	V
Transformer-less, Ungrounded Maximum Input Voltage DC+ to DC-	Yes 1000			1/-
	1000 680 - 1000			Vo
Operating Voltage Range Maximum Input Current	36.25	680 - 1000	48.25	Vo
	30.23	Yes	40.23	A
Reverse-Polarity Protection Ground-Fault Isolation Detection		res 167kΩ Sensitivity ⁽²⁾		
			00.1	0/
Maximum Inverter Efficiency		98.3	98.1	%
European Weighted Efficiency		98 < 4		% W
Nighttime Power Consumption ADDITIONAL FEATURES		< 4		V
		DC405 MEET COLUMN BOOK A		
Supported Communication Interfaces ⁽³⁾	2 x RS485, Wi-Fi (optional), Cellular (optional)			
Smart Energy Management	Export Limitation With the SetApp mobile application using built in Wi. Figscore point for local connection			
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 Type II field replaceable entional			
DC Surge Protection	Type II, field replaceable, optional			
AC Surge Protection		Type II, field replaceable, optic	onal	
DC SAFETY UNIT (OPTIONAL)				1
DC Disconnect	Integrated in the DC safety unit			
DC Fuses (Single Pole)		Optional, 25A		
STANDARD COMPLIANCE				1
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 diameter 19 - 28 mm / 4 - 16 mm² / 4 - 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)	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			k
Operating Temperature Range	-40 to +60 ⁽⁷⁾			°(
Cooling		Fan (user replaceable)		
Noise	< 62			dB
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

 $^{(3) \} Refer to \ Datasheets -> Communications \ category \ on \ Downloads \ page \ for \ specifications \ of \ optional \ communication \ options: \ https://www.solaredge.com/products/communication \ optional \ communication \ options \ described \ optional \ op$

⁽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#/
(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