Three Phase Inverter

SE12.5K - SE27.6K



INVERTERS

Specifically designed to work with power optimizers

- Superior efficiency (98.3%)
- Quick and easy inverter commissioning directly from a smartphone using the SolarEdge SetApp
- Small, lightest in its class, and easy to install
- Built-in module-level monitoring
- Internet connection through Ethernet or Wireless

- Fixed voltage inverter for longer strings
- Smart Energy Management control
- Optional integrated DC Safety Unit eliminates the need for external DC isolators
- Advanced safety features integrated arc fault protection and optional rapid shutdown
- Optional DC surge protection and DC fuses



/ Three Phase Inverter

SE12.5K - SE27.6K

	SE12.5K	SE15K	SE16K	SE17K	SE25K	SE27.6K			
Applicable to inverters with part number	SEXXK-XXXXXBXX4								
OUTPUT									
Rated AC Power Output	12500	15000	16000	17000	25000	27600	VA		
Maximum AC Power Output	12500	15000	16000	17000	25000	27600	VA		
AC Output Voltage - Line to Line / Line to Neutral (Nominal)	380 / 220 ; 400 / 230								
AC Output Voltage - Line to Neutral Range	184 - 264.5								
AC Frequency				Hz					
Maximum Continuous Output Current (per Phase)	20 23 25.5 26 38 40								
Grids Supported - Three Phase	3 / N / PE (WYE with Neutral)								
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes								
THD	≤3								
INPUT									
Maximum DC Power (Module STC)	16850	20250	21600	22950	33750	37250	W		
Transformer-less, Ungrounded				Yes					
Maximum Input Voltage			10	000			Vdc		
Nominal DC Input Voltage			7	750			Vdc		
Maximum Input Current	21	22	23	23	37	40	Adc		
Reverse-Polarity Protection				Yes					
Ground-Fault Isolation Detection		700kΩ :	Sensitivity		350kΩ S	ensitivity ⁽¹⁾			
Maximum Inverter Efficiency		(9	8.3	%				
European Weighted Efficiency	97.7	97.6	97.7	97.7		%			
Nighttime Power Consumption	'	<	2.5	'	<	W			
ADDITIONAL FEATURES					<u> </u>				
Supported Communication Interfaces ⁽²⁾		S185 Ethernet Wi	i-Ei (requires antenn	na)(3) ZiaRee (ontion	nal) Cellular (ontion:		T		
Inverter Comissioning	RS485, Ethernet, Wi-Fi (requires antenna) ^(s) , ZigBee (optional), Cellular (optional) With the SetApp mobile application using built-in Wi-Fi access point for local connection								
Smart Energy Management									
Arc Fault Protection	Export Limitation								
Rapid Shutdown	Integrated, User Configurable (According to UL1699B) Optional ⁽⁴⁾ (Automatic upon AC Grid Disconnect)								
'		Орг	ionai (Automatic t	aport AC dria Disco	of the ecty				
DC SAFETY UNIT (OPTIONAL)					1		_		
2-pole Disconnection		N	1000\						
DC Surge Protection	N/A				Type II, field				
DC Fuses on Plus & Minus	N/A				· ·	nal, 20A			
Compliance	N/A UTE-C15-712-1								
STANDARD COMPLIANCE									
Safety			IEC-62103 (EN5017	8), IEC-62109, AS31	00				
Grid Connection Standards ⁽⁵⁾	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 , IEC61000-3-11, IEC61000-3-12								
RoHS			`	Yes					
INSTALLATION SPECIFICATIONS									
AC Output Gland Diameter / Wire Cross Section		15-21mm / Solid		18-25mm / Solid wire 2.5-16 mm², Stranded wire 2.5-10 mm²					
DC Input	2 MC4 pairs 3 MC4 pairs				4 pairs				
DCI	N/A Gland diameter				meter 5 - 10	mm			
DC Input with Safety Unit	N/A Wire cross section 0.5 - 13				ction 0.5 - 13.5	mm			
Dimensions (HxWxD)	540 x 315 x 260					mm			
Dimensions with Safety Unit (HxWxD)	N/A				775 x 315 x 260				
Weight	33.2 45				45	kg			
Weight with Safety Unit	N/A 48						kg		
Operating Temperature Range	-40 - +60 ⁽⁶⁾								
Cooling	Fan (user replaceable)								
	< 50 < 55								
Noise		<	50		`	22			
Noise Protection Rating		<		oor and Indoor		33	dBA		

Where permitted by local regulations

Where permitted by local regulations

Refer to Datasheets -> Communications category in Downloads page for specifications of optional communication options: http://www.solaredge.com/groups/support/downloads

Wi-Fi connectivity requires an external antenna. For more information refer to: https://www.solaredge.com/sites/default/files/se-wifi-zigbee-antenna-datasheet.pdf

Where permitted by local regulations category in Downloads page for specifications of optional communication options: http://www.solaredge.com/sites/default/files/se-wifi-zigbee-antenna-datasheet.pdf

Por all standards refer to Certifications category in Downloads page: http://www.solaredge.com/groups/support/downloads

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

Three Phase Inverter

SE3K - SE10K



INVERTERS

Specifically designed to work with power optimizers

- Noise level suitable for residential environments No external fan
- Quick and easy inverter commissioning directly from a smartphone using the SolarEdge SetApp
- Small, lightest in its class, and easy to install
- Built-in module-level monitoring
- Superior efficiency (98%)

- Internet connection through Ethernet or Wireless (Wi-Fi, ZigBee Gateway, Cellular)
- ✓ IP65 Outdoor and indoor installation
- Fixed voltage inverter for longer strings
- Smart Energy Management control



/ Three Phase Inverter

SE3K-SE10K(1)

	SE3K ⁽²⁾	SE4K(2)	SE5K	SE6K ⁽²⁾	SE7K	SE8K	SE9K	SE10K	UNITS
APPLICABLE TO INVERTERS WITH PART NUMBER	SEXXK-XXXTXBXX4								
OUTPUT									
Rated AC Power Output	3000	4000	5000	6000	7000	8000	9000	1000	VA
Maximum AC Power Output	3000	4000	5000	6000	7000	8000	9000	1000	VA
AC Output Voltage - Line to Line / Line to Neutral (Nominal)	380 / 220 ; 400 / 230								
AC Output Voltage - Line to Neutral Range				184 -	264.5				Vac
AC Frequency	50/60 ± 5								Hz
Maximum Continuous Output Current (per Phase)	5	6.5	8	10	11.5	13	14.5	16	А
Grids Supported - Three Phase	3 / N / PE (WYE with Neutral)								V
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes								
INPUT									- !!
Maximum DC Power (Module STC)	4050	5400	6750	8100	9450	10800	12150	13500	W
Transformer-less, Ungrounded			1	Ye	es		l		
Maximum Input Voltage	900								Vdc
Nominal DC Input Voltage		750							Vdc
Maximum Input Current	5	7	8.5	10	12	13.5	15	16.5	Adc
Reverse-Polarity Protection		Yes							
Ground-Fault Isolation Detection		700kΩ Sensitivity							
Maximum Inverter Efficiency				9	8				%
European Weighted Efficiency	96.7	97.3	97.3	97.3	97.4	97.6	97.5	97.6	%
Nighttime Power Consumption				< :	2.5			•	W
ADDITIONAL FEATURES									
Supported Communication Interfaces(3)		RS485, Ethernet, Wi-Fi (requires antenna ⁽⁴⁾), ZigBee (optional), Cellular (optional)							
Smart Energy Management	Export Limitation, Home Energy Management (Device Control)								
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi access point for local connection								
STANDARD COMPLIANCE									
Safety	IEC-62103 (EN50178), IEC-62109								
Grid Connection Standards ⁽⁵⁾	VDE 0126-1-1, VDE-AR-N-4105, AS-4777, G83 / G59								
Emissions	IEC61000-6-2, IEC61000-6-3 , IEC61000-3-11, IEC61000-3-12, FCC part15 class B								
RoHS	Yes								
INSTALLATION SPECIFICATIONS	5								"
AC Output	Cable Gland - diameter 15-21								mm
DC Input	2 MC4 pairs								
Dimensions (HxWxD)	540 x 315 x 191								mm
Weight	16.4							kg	
Operating Temperature Range	-40 to +60 ⁽⁶⁾							°C	
Cooling	Internal Fan								
Noise	< 40								dBA
Protection Rating	IP65 - Outdoor and Indoor								
Mounting	Bracket Provided								

⁽¹⁾ For higher power models refer to: https://www.solaredge.com/sites/default/files/se-three-phase-inverter-extended-power-datasheet.pdf
(2) Available in some countries; refer to Certifications category in Downloads page: http://www.solaredge.com/groups/support/downloads
(3) Refer to Datasheets -> Communications category in Downloads page for specifications of optional communication options: http://www.solaredge.com/groups/support/downloads
(4) Wi-Fi connectivity requires an external antenna. For more information refer to: https://www.solaredge.com/sites/default/files/se-wif-zigbee-antenna-datasheet.pdf
(5) For all standards refer to Certifications category in Downloads page: http://www.solaredge.com/groups/support/downloads
(6) For power de-rating information refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note.pdf