



Three Phase Inverter

SE15K - 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
- IP65 – Outdoor and indoor installation
- Fixed voltage inverter for longer strings
- Smart Energy Management control
- Optional integrated DC Safety Unit - eliminates the need for external DC isolators
- Optional DC surge protection and DC fuses



Three Phase Inverter

SE15K - SE27.6K

	SE15K	SE16K	SE17K	SE25K	SE27.6K	
APPLICABLE TO INVERTERS WITH PART NUMBER	SEXK-XXXXXBXX4					
OUTPUT						
Rated AC Power Output	15000	16000	17000	25000	27600	VA
Maximum AC Power Output	15000	16000	17000	25000	27600	VA
AC Output Voltage - Line to Line / Line to Neutral (Nominal)	380 / 220 ; 400 / 230					Vac
AC Output Voltage - Line to Neutral Range	184 - 264.5					Vac
AC Frequency	50/60 ± 5					Hz
Maximum Continuous Output Current (per Phase)	23	25.5	26	38	40	A
Grids Supported - Three Phase	3 / N / PE (WYE with Neutral)					V
Utility Monitoring, Islanding Protection, Configurable						
Power Factor, Country, Configurable Thresholds	Yes					
THD	< 3					
INPUT						
Maximum DC Power (Module STC)	20250	21600	22950	33750	37250	%
Transformer-less, Ungrounded	Yes					
Maximum Input Voltage	1000					Vdc
Nominal DC Input Voltage	750					Vdc
Maximum Input Current	22	23	23	37	40	Adc
Reverse-Polarity Protection	Yes					
Ground-Fault Isolation Detection	700kΩ Sensitivity			350kΩ Sensitivity ⁽¹⁾		
Maximum Inverter Efficiency	98			98.3		%
European Weighted Efficiency	97.6	97.7	97.7	98		%
Nighttime Power Consumption	< 2.5			< 4		W
ADDITIONAL FEATURES						
Supported Communication Interfaces ⁽²⁾	2 x RS485, Ethernet, Built-in GSM (optional)					
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi station for local connection					
Smart Energy Management	Export Limitation					
Arc Fault Protection	Integrated, User Configurable (According to UL1699B)					
Rapid Shutdown	Optional ⁽³⁾ (Automatic upon AC Grid Disconnect)					
DC SAFETY UNIT (OPTIONAL)						
2-pole Disconnection	N/A			1000V / 40A		
DC Surge Protection	N/A			Type II, field replaceable		
DC Fuses on Plus & Minus	N/A			Optional, 20A		
Compliance	N/A			UTE-C15-712-1		
STANDARD COMPLIANCE						
Safety	IEC-62103 (EN50178), IEC-62109, AS3100					
Grid Connection Standards ⁽⁴⁾	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 wire 2.5-16 mm ²			18-25mm / Solid wire 2.5-16 mm ² , Stranded wire 2.5-10 mm ²		
DC Input	2 MC4 pairs			3 MC4 pairs		
DC Input with Safety Unit	N/A			Gland diameter 5 - 10		mm
Dimensions (HxWxD)	N/A			Wire cross section 0.5 - 13.5		mm ²
Dimensions with Safety Unit (HxWxD)	540 x 315 x 260			775 x 315 x 260		mm
Weight	33.2			45		kg
Weight with Safety Unit	N/A			48		kg
Operating Temperature Range	-40 - +60 ⁽⁵⁾					°C
Cooling	N/A			Fan (user replaceable)		
Noise	< 50			< 55		dBA
Protection Rating	IP65 - Outdoor and Indoor					
Bracket Mounted (Bracket Provided)						

⁽¹⁾ Where permitted by local regulations

⁽²⁾ Refer to Datasheets -> Communications category in Downloads page for specifications of optional communication options: <http://www.solaredge.com/groups/support/downloads>

⁽³⁾ Inverter with rapid shutdown part number: SExxK-RWR00BNN2; available for SE25K and SE27.6K

⁽⁴⁾ For all standards refer to Certifications category in Downloads page: <http://www.solaredge.com/groups/support/downloads>

⁽⁵⁾ For power de-rating information refer to: <https://www.solaredge.com/sites/default/files/se-temperature-derating-note.pdf>

