



Three Phase Inverters for Delta Grids

(Belgium, Norway, Taiwan & Philippines)

SE15K - SE27.6K

INVERTERS



Specifically designed to work with power optimizers

- Superior efficiency (98%)
- 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, DC/AC conversion only
- Optional integrated DC Safety Unit - eliminates the need for external DC isolators
- Optional DC surge protection and DC fuses



Three Phase Inverters for Delta Grids

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	SE15K	SE16K	SE17K	SE25K	SE27.6K	
APPLICABLE TO INVERTERS WITH PART NUMBER	SEXK-XXXXXBXX4					
OUTPUT						
Rated AC Power Output	8700	9200	10000	14500	16000	VA
Maximum AC Power Output	8700	9200	10000	14500	16000	VA
AC Output Voltage - Line to Line	220, 230					Vac
AC Output Voltage - Line to Line Range	184 - 264.5					Vac
AC Frequency	50/60 ± 5					Hz
Maximum Continuous Output Current (per Phase)	23	25.5	26	38	40	A
Residual Current Detector / Residual Current Step Detector	300 / 30					mA
Grids Supported - Three Phase	3 Lines / PE (Delta; corner grounding not supported)					V
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes					
THD	≤ 3					%
INPUT						
Maximum DC Power (Module STC)	11745	12420	13500	19575	21600	%
Transformer-less, Ungrounded	Yes					
Maximum Input Voltage	600					Vdc
Nominal DC Input Voltage	400					Vdc
Maximum Input Current	22.5	24	26	37.5	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					
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					
Grid Connection Standards	C10/11, EN50438					
Emissions	IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12					
RoHS	Yes					
INSTALLATION SPECIFICATIONS						
AC Output	Cable Gland - diameter 15 - 21			Cable Gland - diameter 18 - 25		mm
DC Input	2 MC4 pairs			3 MC4 pairs		
DC Input with Safety Unit	N/A			Gland outer diameter 5 - 10		mm
	N/A			Wire cross section 0.5 - 13.5		mm ²
Dimensions (HxWxD)	540 x 315 x 260					mm
Dimensions with Safety Unit (HxWxD)	N/A			775 x 315 x 260		mm
Weight	33.2			45		kg
Weight with Safety Unit	N/A			48		kg
Operating Temperature Range	-40 - +60					°C
Cooling	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: <https://www.solaredge.com/downloads/>

