

## Three Phase Inverters For Delta Grids (Norway, Taiwan & Philippines)

SE12.5K - SE27.6K



### 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
- / Advanced safety features - integrated arc fault protection and optional rapid shutdownfuses

# / Three Phase Inverters for Delta Grids

(Norway, Taiwan & Philippines)

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	7200	8700	9200	10000	14500	16000	VA
Maximum AC Power Output	7200	8700	9200	10000	14500	16000	VA
AC Output Voltage - Line to Line / Line to PE	220 / 127 ; 230 / 133						Vac
AC Output Voltage - Line to Line Range	184 - 264.5						Vac
AC Frequency	50/60 ± 5						Hz
Maximum Continuous Output Current (per Phase)	20	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)						
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes						
THD	≤ 3						%
INPUT							
Maximum DC Power (Module STC)	9720	11745	12420	13500	19575	21600	%
Transformer-less, Ungrounded	Yes						
Maximum Input Voltage	600						Vdc
Nominal DC Input Voltage	400						Vdc
Maximum Input Current	19	22.5	24	26	37.5	40	Adc
Reverse-Polarity Protection	Yes						
Ground-Fault Isolation Detection	700kΩ Sensitivity				350kΩ Sensitivity <sup>(1)</sup>		
Maximum Inverter Efficiency	98				98.3		%
European Weighted Efficiency	97.7	97.6	97.7	97.7	98		%
Nighttime Power Consumption	< 2.5				< 4		W
ADDITIONAL FEATURES							
Supported Communication Interfaces <sup>(2)</sup>	RS485, Ethernet, Wi-Fi (requires antenna <sup>(3)</sup> ), ZigBee (optional), Cellular (optional)						
Inverter Comissioning	With the SetApp mobile application using built-in Wi-Fi access point for local connection						
Rapid Shutdown	Optional <sup>(4)</sup> (Automatic upon AC Grid Disconnect)						
Arc Fault Protection	Integrated, User Configurable (According to UL1699B)						
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		mm²
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 <sup>(5)</sup>						°C
Cooling	Fan (user replaceable)						
Noise	< 50				< 55		dBA
Protection Rating	IP65 - Outdoor and Indoor						
Mounting	Bracket Provided						

<sup>(1)</sup> Where permitted by local regulations

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

<sup>(3)</sup> 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>

<sup>(4)</sup> Inverter with rapid shutdown part number: SExxK-RWRxxxxx; available for SE25K and SE27.6K

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