

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 shutdown fuses

/ 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	SEXXX-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 ⁽¹⁾		
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 ⁽²⁾	RS485, Ethernet, Wi-Fi (requires antenna ⁽³⁾), ZigBee (optional), Cellular (optional)						
Inverter Comissioning	With the SetApp mobile application using built-in Wi-Fi access point for local connection						
Rapid Shutdown	Optional ⁽⁴⁾ (Automatic upon AC Grid Disconnect)						
Arc Fault Protection	Integrated, User Configurable (According to UL1699B)						
Smart Energy Management	Export limitation						
RS485 Surge Protection	Optional ⁽⁵⁾						
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 ⁽⁶⁾	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	30.7			42.5			kg
Weight with Safety Unit	N/A			45.5			kg
Operating Temperature Range	-40 - +60 ⁽⁷⁾						°C
Cooling	Fan (user replaceable)						
Noise	< 50			< 55			dBA
Protection Rating	IP65 - Outdoor and Indoor						
Mounting	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/#/>

⁽³⁾ 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>

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

⁽⁵⁾ Provided with the inverter in India only. For other countries an SPD plug-in can be purchased.

Refer to: https://www.solaredge.com/sites/default/files/se_spd_plug_in_for_rs485_3ph_setapp_ds.pdf

⁽⁶⁾ For all standards refer to Certifications category in Downloads page: <http://www.solaredge.com/groups/support/downloads>

⁽⁷⁾ For power de-rating information refer to: <https://www.solaredge.com/sites/default/files/se-temperature-derating-note.pdf>