

Three Phase Inverters

For Delta Grids (Norway, Taiwan
& Philippines)

SE7K - SE10K



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

/ SolarEdge Three Phase Inverters

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SE7K - SE10K⁽¹⁾

	SE7K	SE8K	SE9K	SE10K	
APPLICABLE TO INVERTERS WITH PART NUMBER	SEXK-XXXXBXX4				
OUTPUT					
Rated AC Power Output	4000	4600	5200	5800	VA
Maximum AC Power Output	4000	4600	5200	5800	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)	11.5	13	14.5	16	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				
INPUT					
Maximum DC Power (Module STC)	5400	6210	7020	7830	W
Transformer-less, Ungrounded	Yes				
Maximum Input Voltage	600				Vdc
Nominal DC Input Voltage	400				Vdc
Maximum Input Current	10.5	12	13.5	15	Adc
Reverse-Polarity Protection	Yes				
Ground-Fault Isolation Detection	700kΩ Sensitivity				
Maximum Inverter Efficiency	98				%
European Weighted Efficiency	97.3	97.5	97.5	97.6	%
Nighttime Power Consumption	< 2.5				W
ADDITIONAL FEATURES					
Supported Communication Interfaces ⁽²⁾	RS485, Ethernet, Wi-Fi (requires antenna) ⁽³⁾ , ZigBee (optional), Cellular (optional)				
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	C10/11, EN50438				
Emissions	IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12, FCC part15 class B				
RoHS	Yes				
INSTALLATION SPECIFICATIONS					
AC Output	Cable Gland - diameter 15-21				mm
DC Input	2 MC4 pairs				
Dimensions (HxWxD)	540 x 315 x 260				mm
Weight	16.4				kg
Operating Temperature Range	-40 - +60 ⁽⁴⁾				°C
Cooling	Fan (user replaceable)				
Noise	< 50				dBa
Protection Rating	IP65 - Outdoor and Indoor				
Mounting	Bracket Provided				

⁽¹⁾ For higher power models refer to: <http://www.solaredge.com/files/pdfs/products/inverters/se-three-phase-inverter-extended-power-datasheet.pdf>

⁽²⁾ Refer to Datasheets -> Communications category in Downloads page for specifications of optional communication options: <http://www.solaredge.com/groups/support/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⁾ For power de-rating information refer to: <https://www.solaredge.com/sites/default/files/se-temperature-derating-note.pdf>