

# Three Phase Inverter

SE12.5K - 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
- /// Advanced safety features - integrated arc fault protection and optional rapid shutdown
- /// Optional DC surge protection and DC fuses

# / Three Phase Inverter

## SE12.5K - SE27.6K

	SE12.5K	SE15K	SE16K	SE17K	SE25K	SE27.6K	
<b>Applicable to inverters with part number</b>	<b>SEXXX-XXXXXBXX4</b>						
<b>OUTPUT</b>							
Rated AC Power Output	12500	15000	16000	17000	25000	27600	VA
Maximum AC Power Output	12500	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)	20	23	25.5	26	38	40	A
Grids Supported - Three Phase	3 / N / PE (WYE with Neutral)						
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes						
THD	≤ 3						
<b>INPUT</b>							
Maximum DC Power (Module STC)	16850	20250	21600	22950	33750	37250	W
Transformer-less, Ungrounded	Yes						
Maximum Input Voltage	1000						Vdc
Nominal DC Input Voltage	750						Vdc
Maximum Input Current	21	22	23	23	37	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
<b>ADDITIONAL FEATURES</b>							
Supported Communication Interfaces <sup>(2)</sup>	RS485, Ethernet, Wi-Fi (requires antenna) <sup>(3)</sup> , ZigBee (optional), Cellular (optional)						
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi access point for local connection						
Smart Energy Management	Export Limitation						
Arc Fault Protection	Integrated, User Configurable (According to UL1699B)						
Rapid Shutdown	Optional <sup>(4)</sup> (Automatic upon AC Grid Disconnect)						
RS485 Surge Protection	Optional <sup>(5)</sup>						
<b>DC SAFETY UNIT (OPTIONAL)</b>							
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			
<b>STANDARD COMPLIANCE</b>							
Safety	IEC-62103 (EN50178), IEC-62109, AS3100						
Grid Connection Standards <sup>(6)</sup>	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						
<b>INSTALLATION SPECIFICATIONS</b>							
AC Output Gland Diameter / Wire Cross Section	15-21mm / Solid wire 2.5-16 mm <sup>2</sup>			18-25mm / Solid wire 2.5-16 mm <sup>2</sup> , Stranded wire 2.5-10 mm <sup>2</sup>			
DC Input	2 MC4 pairs			3 MC4 pairs			
DC Input with Safety Unit	N/A			Gland diameter 5 - 10			mm
	N/A			Wire cross section 0.5 - 13.5			mm <sup>2</sup>
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 <sup>(7)</sup>						°C
Cooling	Fan (user replaceable)						
Noise	< 50			< 55			dB(A)
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: <http://www.solaredge.com/groups/support/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> 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](https://www.solaredge.com/sites/default/files/se_spd_plug_in_for_rs485_3ph_setapp_ds.pdf)

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

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