

Three Phase Inverter for the 277/480V Grid

SE33.3K



INVERTERS

Specifically designed to work with power optimizers

- // Superior efficiency (98.1%)
- // 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
- // Optional DC surge protection and DC fuses
- // Advanced safety features - Integrated arc fault protection and optional rapid shutdown

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		SE33.3K (Requires medium voltage transformer)	
Applicable to inverters with part numbers		SEXXX-XXXXXBXX4	
OUTPUT			
Rated AC Power Output		33300	VA
Maximum AC Power Output		33300	VA
AC Output Voltage - Line to Line / Line to Neutral (Nominal)		480 / 277	Vac
AC Output Voltage - Line to Neutral Range		244-305	Vac
AC Frequency		50/60 ± 5	Hz
Maximum Continuous Output Current (per Phase) @277V		40	A
Grids Supported - Three Phase		3 / N / PE (WYE with Neutral)	V
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds		Yes	
INPUT			
Maximum DC Power (Module STC)		45000	W
Transformer-less, Ungrounded		Yes	
Maximum Input Voltage		1000	Vdc
Nominal DC Input Voltage		840	Vdc
Maximum Input Current		40	Adc
Reverse-Polarity Protection		Yes	
Ground-Fault Isolation Detection		350kΩ Sensitivity ⁽¹⁾	
Maximum Inverter Efficiency		98.1	%
European Weighted Efficiency		98	%
Nighttime Power Consumption		< 4	W
ADDITIONAL FEATURES			
Supported Communication Interfaces ⁽²⁾		RS485, Ethernet, Wi-Fi (requires antenna) ⁽³⁾ , ZigBee (optional), Cellular (optional)	
Smart Energy Management		Export Limitation	
Inverter Commissioning		With the SetApp mobile application using built in Wi-Fi access point for local connection	
Arc Fault Protection		Integrated, User Configurable (According to UL1699B)	
Rapid Shutdown		Optional ⁽⁴⁾ (Automatic upon AC Grid Disconnect)	
RS485 Surge Protection		Optional ⁽⁵⁾	
DC SAFETY UNIT (OPTIONAL)			
2-pole Disconnection		1000V / 40A	
DC Surge Protection		Type II, field replaceable	
DC Fuses on Plus & Minus		Optional, 20A	
Compliance		UTE-C15-712-1	
STANDARD COMPLIANCE			
Safety		IEC-62103 (EN50178), IEC-62109, AS3100	
Grid Connection Standards ⁽⁶⁾		BDEW, CEI-016	
Emissions		IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12	
RoHS		Yes	
INSTALLATION SPECIFICATIONS			
AC Output		Cable Gland - diameter 18 - 25	mm
DC Input		3 MC4 pairs	
DC Input with Safety Unit		Gland outer diameter 5 - 10 mm / Wire cross section 0.5 - 13.5 mm ²	
Dimensions (HxWxD)		540 x 315 x 260	mm
Dimensions with Safety Unit (HxWxD)		775 x 315 x 260	mm
Weight		45	kg
Weight with Safety Unit		48	kg
Operating Temperature Range		-40 - +60 ⁽⁷⁾	°C
Cooling		Fan (user replaceable)	
Noise		< 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: <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⁾ Inverter with rapid shutdown part number: SE33.3K-RWRxxxxxx

⁽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>