

Three Phase Inverter for the 277/480V Grid

SE33.3K

INVERTERS



Specifically designed to work with power optimizers

- // Superior efficiency (98.1%)
- // 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

/ Three Phase Inverter

for the 277/480V Grid

SE33.3K

SE33.3K (Requires medium voltage transformer)

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, Zigbee (optional), Wi-Fi (optional), Built-in GSM (optional)	
Smart Energy Management	Export Limitation	

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 ⁽³⁾	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	-20 - +60 ⁽⁴⁾ (-40 version available)	°C
Cooling	Fan (user replaceable)	
Noise	< 55	dBA
Protection Rating	IP65 - Outdoor and Indoor	
Bracket Mounted (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⁾ For all standards refer to Certifications category in Downloads page: <http://www.solaredge.com/groups/support/downloads>

⁽⁴⁾ For power de-rating information refer to: <https://www.solaredge.com/sites/default/files/se-temperature-derating-note.pdf>