



SolarEdge Three Phase Inverters for the Medium Voltage Grid

SE33.3K

INVERTERS



Specifically designed to work with power optimizers

- Superior efficiency (98.5%)
- 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



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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) @220V	40	A
Residual Current Detector / Residual Current Step Detector	300 / 30	mA
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	700kΩ Sensitivity	
Maximum Inverter Efficiency	98.1	%
European Weighted Efficiency	97.8	%
Nighttime Power Consumption	< 4	W
ADDITIONAL FEATURES		
Supported Communication Interfaces ⁽¹⁾	RS485, Ethernet, Zigbee (optional), Wi-Fi (optional), Built-in GSM (optional)	
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 ⁽²⁾	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 15-21	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 (-40 version available)	°C
Cooling	Fan (user replaceable)	
Noise	< 55	dBA
Protection Rating	IP65 - Outdoor and Indoor	
Bracket Mounted (Bracket Provided)		

⁽¹⁾ Refer to Datasheets -> Communications category in Downloads page for specifications of optional communication options: <http://www.solaredge.com/groups/support/downloads>

⁽²⁾ For all standards refer to Certifications category in Downloads page: <http://www.solaredge.com/groups/support/downloads>

