Inspections Division
Date: 12/29/16

INVERTER

SolarEdge Three Phase Inverters for the Medium Voltage Grid

SE33.3K

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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SolarEdge Three Phase Inverters for the Medium Voltage 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) @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

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