



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



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	V _{ac}
AC Output Voltage - Line to Neutral Range	244-305	V _{ac}
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	V _{dc}
Nominal DC Input Voltage	840	V _{dc}
Maximum Input Current	40	A _{dc}
Reverse-Polarity Protection	Yes	
Ground-Fault Isolation Detection	1MΩ Sensitivity	
Maximum Inverter Efficiency	98.1	%
European Weighted Efficiency	97.8	%
Nighttime Power Consumption	< 4	W
ADDITIONAL FEATURES		
Supported Communication Interfaces	RS485, Ethernet, Zigbee (optional), Wi-Fi (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*	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; with optional DC safety unit: cable glands - diameter 2-4mm	
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)		

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

