

SolarEdge Three Phase Inverters for the Medium Voltage Grid

SE66.6K-SE100K



Specifically designed to work with power optimizers

- Easy two-person installation each unit mounted separately, equipped with cables for simple connection between units
- Balance of System and labor reduction compared to using multiple smaller string inverters
- Independent operation of each unit enables higher uptime and easy serviceability
- No wasted ground area: wall/rail mounted or horizontally mounted under the modules (10° inclination)
- Built-in module-level monitoring with Ethernet or cellular GSM
- Fixed voltage inverter for superior efficiency (98.1%) and longer strings
- Integrated DC Safety Unit with DC Safety Switch and optional surge protection & DC fuses eliminates the need for external DC isolators



Solar Edge Three Phase Inverters for the Medium Voltage Grid SE66.6K-SE100K

	SE66.6K	SE100K	
OUTPUT			
Rated AC Power Output	66600	100000	VA
Maximum AC Power Output	66600	100000	VA
AC Output Voltage — Line to Line / Line to Neutral (Nominal)	480/277		Vac
AC Output Voltage — Line to Line Range; Line to Neutral	432 - 528 / 249.3 - 304.7		Vac
Range	432 - 320 / 245.3 - 304.7		vac
AC Frequency	50/60 ± 5		Hz
Maximum Continuous Output Current (per Phase) @277V	80	120	Α.
Grids Supported — Three Phase	3 / N / PE (WYE with Neutral)		V
Utility Monitoring, Islanding Protection, Configurable Power	V	25	
Factor, Country Configurable Thresholds	''		
INPUT			
Maximum DC Power (Module STC)	90000	135000	W
Transformer-less, Ungrounded	Ye	es	
Maximum Input Voltage	1000		Vdc
Nominal DC Input Voltage	8!	50	Vdc
Maximum Input Current	80	120	Adc
Reverse-Polarity Protection	Ye	2S	
Ground-Fault Isolation Detection	350kΩ Sensitivity per Unit ⁽¹⁾		+
Maximum Inverter Efficiency	98.1		%
	•	8	
European Weighted Efficiency	····	• • • • • • • • • • • • • • • • • • • •	%
Nighttime Power Consumption	<	12	W
ADDITIONAL FEATURES			1
Supported Communication Interfaces ⁽²⁾	RS485, Ethernet, Cel	lular GSM (optional)	
DC SAFETY UNIT	1		1
DC Disconnect	1000V / 2 x 40A	1000V / 3 x 40A	
DC Surge Protection	Optional, Type II, field replaceable		
DC Fuses on Plus & Minus	Option	al, 30A	
STANDARD COMPLIANCE(3)			
Safety	IEC-6210	9, AS3100	
Grid Connection Standards ⁽⁴⁾	VDE-AR-N-4105, G59/3, AS-4777,EN 50438 , CEI-021,VDE 0126-1-1, CEI-016, BDEW		
Emissions	IEC61000-6-2, IEC61000-6-3,	EC61000-3-11, IEC61000-3-12	
RoHS	Yes		
INSTALLATION SPECIFICATIONS	1		
Number of units	2	3	
Turning of the control of the contro	Cable gland — diameter 22-32; PE gland	Cable gland — diameter 20-38; PE gland	+
AC Output Cable	diameter 10-16	diameter 10-16	mm
(5)	6 strings, 4-10mm ² DC wire, gland outer	9 strings, 4-10mm ² DC wire, gland outer	
DC Input ⁽⁵⁾	diameter 5-10mm	diameter 5-10mm	
AC Output Wire	Up to 50, Aluminum or Copper	Up to 95, Aluminum or Copper	mm²
Dimensions (H x W x D)	*	Secondary Unit: 540 x 315 x 260	mm
Weight	Primary Unit: 48;		kg
Operating Temperature Range	.	version -40 to +60)	
	Fan (user replaceable)		
Cooling Noise	* · · · · · · · · · · · · · · · · · · ·	60	4D 4
	<	UU	dBA
Protection Rating	IDCE O Lib	or and Indoor	1



^[2] Refer to Datasheets -> Communications category on Downloads page for specifications of optional communication options: http://www.solaredge.com/groups/support/downloads ^[3] Pending

⁽⁴⁾ For all standards refer to Certifications category on Downloads page: http://www.solaredge.com/groups/support/downloads

 $^{^{(5)}}$ Single input option per unit (up to $25 mm^2$) available

⁽⁶⁾ De-rating from 50°C