

SolarEdge Commercial Three Phase Inverters for the 277/480V Grid

for North America 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)
- Integrated arc fault protection and rapid shutdown for NEC 2014 and 2017, per article 690.11 and 690.12
- Built-in module-level monitoring with Ethernet or cellular GSM
- Fixed voltage inverter for superior efficiency (98.5%) and longer strings
- Integrated DC Safety Switch and optional surge protection & DC fuses (plus & minus)
- Built-in RS485 Surge Protection Device, to better withstand lightning events

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	SE66.6K	SE100K	
DUTPUT			
Rated AC Power Output	66600	100000	VA
Vaximum AC Power Output	66600	100000	VA
AC Output Line Connections	4-wire WYE (L1-L	2-L3-N) plus PE	
AC Output Voltage Minimum-Nominal-Maximum ⁽¹⁾ (L-N)	244 - 277 - 305		Vac
AC Output Voltage Minimum-Nominal-Maximum ⁽¹⁾ (L-L)	422.5 - 480 - 529		Vac
AC Frequency Min-Nom-Max ⁽¹⁾	59.3 - 60) - 60.5	Hz
Maximum Continuous Output Current (per Phase) @277V	80	120	A
GFDI Threshold	1		Α
Jtility Monitoring, Islanding Protection, Configurable Power	Yes		
Factor, Country Configurable Thresholds		5	
NPUT			
Maximum DC Power (Module STC)	90000	135000	W
Transformer-less, Ungrounded	Yes	S	
Vaximum Input Voltage DC to Gnd	500		Vdc
Vlaximum Input Voltage DC+ to DC-	1000		Vdc
Nominal Input Voltage DC to Gnd	42!	5	Vdc
Nominal Input Voltage DC+ to DC-	850	0	Vdc
Vlaximum Input Current	80	120	Adc
Naximum Input Short Circuit Current	120	0	Adc
Reverse-Polarity Protection	Yes	S	
Ground-Fault Isolation Detection	350kΩ Sensitivity per Unit		
CEC Weighted Efficiency	98.5		%
Nighttime Power Consumption	< 12		W
ADDITIONAL FEATURES			
Supported Communication Interfaces	RS485, Ethernet, Cell	ular GSM (optional)	
Rapid Shutdown	NEC2014 and NEC2017 compliant/certified, upon AC Grid Disconnect		
RS485 Surge Protection	Built-in		
DC SAFETY SWITCH			
DC Disconnect	1000V / 2 x 40A	1000V / 3 x 40A	
DC Surge Protection	Optional, Type II, f	• • • • • • • • • • • • • • • • • • • •	
DC Fuses on Plus & Minus	Optional, 30A		
Safety	UL1741, UL1741 SA, UL16	599B. UL1998. CSA 2.22	
Grid Connection Standards	IEEE 1547, Rule 21, Rule 14 (HI)		
Emissions	FCC part15 class A		
NSTALLATION SPECIFICATIONS	i co pure		
Number of units	2	3	
AC Output Conduit Size / Max AWG / Max PE AWG	1.5″ / 2/0 / 6	2" / 4/0 / 4	
DC Output Conduit Size / Terminal Block AWG Range /			
Number of Strings ⁽³⁾	2 x 1.25" / 6-14 / 6 strings	2 x 1.25" / 6-14 / 9 strings	
Dimensions (H x W x D)	Primary Unit: 37 x 12.5 x		in / mr
	Secondary Unit: 21 x 12.5 x 10.5 / 540 x 315 x 260		
Neight	Primary Unit: 105.8 / 48; Secondary Unit 99.2 / 45		lb / kg
	-13 to +140 / -25 to +60 ⁽⁴⁾ (-40°F / -40°C option)		°F / °C
Operating Temperature Range	Fan (user replaceable)		
Cooling			
	Fan (user re < 6 NEMA	0	dBA

(2) Pending

⁽³⁾ Single input option per unit (up to 3AWG) available

(4) De-rating from 50°C

CE

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