

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	
OUTPUT			
Rated AC Power Output	66600	100000	VA
Maximum AC Power Output	66600	100000	VA
AC Output Line Connections	4-wire WYE (L1-	L2-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 - 6	0 - 60.5	Hz
Maximum Continuous Output Current (per Phase) @277V	80	120	А
GFDI Threshold		1	Α
Jtility Monitoring, Islanding Protection, Configurable Power	Yes		
Factor, Country Configurable Thresholds			
NPUT			1
Maximum DC Power (Module STC), Inverter / Unit	90000 / 45000	135000 / 45000	W
ransformer-less, Ungrounded	Yes		
Maximum Input Voltage DC to Gnd	500		Vdc
Maximum Input Voltage DC+ to DC-	1000		Vdc
Iominal Input Voltage DC to Gnd	425		Vdc
Iominal Input Voltage DC+ to DC-	8!	50	Vdc
Лахітит Input Current	80	120	Adc
Лахітит Input Short Circuit Current	12	20	Adc
everse-Polarity Protection	Ye	es	
Fround-Fault Isolation Detection	350kΩ Sensitivity per Unit		
CEC Weighted Efficiency	98.5		%
Nighttime Power Consumption	<	12	W
ADDITIONAL FEATURES			
Supported Communication Interfaces	RS485, Ethernet, Ce	llular GSM (optional)	
Rapid Shutdown	NEC2014 and NEC2017 compliant/certified, upon AC Grid Disconnect		
RS485 Surge Protection	Built-in		
DC SAFETY SWITCH			
OC Disconnect	1000V / 2 x 40A	1000V / 3 x 40A	
OC Surge Protection	Optional, Type II, field replaceable		
DC Fuses on Plus & Minus	Optional, 30A		
TANDARD COMPLIANCE ⁽²⁾		,	
afety	UL1741. UL1741 SA. UL1	1699B, UL1998, CSA 2.22	
Grid Connection Standards	IEEE 1547, Rule 21, Rule 14 (HI)		
missions	FCC part15 class A		
NSTALLATION SPECIFICATIONS	i de pare.	13 01033 71	
Number of units	2	3	
AC Output Conduit Size / Max AWG / Max PE AWG	1.5" / 2/0 / 6	2" / 4/0 / 4	
OC 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)		x 10.5 / 940 x 315 x 260;	in / mm
	Secondary Unit: 21 x 12.5 x 10.5 / 540 x 315 x 260		
Veight	Primary Unit: 105.8 / 48; Secondary Unit 99.2 / 45		lb / kg
Operating Temperature Range	-40 to +140 / -40 to +60 ⁽⁴⁾		°F/°C
Cooling	Fan (user replaceable)		
loise	< 60		dBA
Protection Rating	NEM	IA 3R	
Bracket Mounted (Brackets Provided)			

 $^{^{(1)}}$ For other regional settings please contact SolarEdge support

⁽²⁾ Pending

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

⁽⁴⁾ For power de-rating information refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf