

## **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



## SolarEdge Commercial Three Phase Inverters for the 277/480V Grid for North America SE66.6K-SE100K

	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 <sup>(1)</sup> (L-N)	244 - 277 - 305		Vac
AC Output Voltage Minimum-Nominal-Maximum <sup>(1)</sup> (L-L)	422.5 - 480 - 529		Vac
AC Frequency Min-Nom-Max <sup>(1)</sup>	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			
Maximum DC Power (Module STC)	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		20	Adc
everse-Polarity Protection	Ye	es	
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, 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 <sup>(2)</sup>		,	
afety	UL1741, UL1741 SA, UL1	L699B, UL1998, CSA 2.22	
Grid Connection Standards	IEEE 1547, Rule 21, Rule 14 (HI)		
missions	FCC part15 class A		
NSTALLATION SPECIFICATIONS	1 de part.	100071	
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 <sup>(3)</sup>	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	-13 to +140 / -25 to +60 <sup>(4)</sup> (-40°F / -40°C option)		°F/°C
Cooling	Fan (user replaceable)		
Voise	< 60		dBA
Protection Rating	NEM.	IA 3R	
Bracket Mounted (Brackets Provided)			

 $<sup>^{(1)}\,\</sup>mbox{For other}$  regional settings please contact SolarEdge support

<sup>(2)</sup> Pending

<sup>(3)</sup> Single input option per unit (up to 3AWG) available

<sup>(4)</sup> De-rating from 50°C