



# SolarEdge US Three Phase Inverters



## The only inverters specially designed for distributed DC architecture

- Superior efficiency (>97%)
- Small, lightweight and easy to install
- Built-in module-level monitoring receiver
- Internal Ethernet port for connecting to SolarEdge monitoring portal
- Optional wireless inverter connection for monitoring data
- Outdoor and indoor installation
- Excellent reliability with standard 12 year warranty



*architects of energy™*



# Three Phase Inverters

## SE8kUS/SE10kUS/SE12kUS/SE15kUS

All our inverters are part of SolarEdge's innovative system designed to provide superior performance at a competitive price.

The SolarEdge inverter combines a sophisticated, cutting-edge digital control technology and a one stage, ultra-efficient power conversion architecture to achieve superior performance – over 97% efficiency and best-in-class reliability. Our fixed-voltage technology ensures the inverter is always working at its optimal input voltage, regardless of the number of modules or environmental conditions.

A proprietary data monitoring receiver is integrated in the inverter and aggregates SolarEdge PowerBox performance data from each PV module. Multiple inverters can be connected in an RS485 bus or using a wireless Zigbee MESH network. The data from the inverters is transmitted to the web using an Ethernet connection or a wireless link and can be accessed via the SolarEdge Monitoring Portal for performance analysis, fault detection and troubleshooting.

The inverter comes with a built-in DC switch and is light enough for a single person to install on a supplied bracket.

### TECHNICAL DATA

	SE8kUS	SE10kUS	SE12kUS	SE15kUS	
<b>OUTPUT</b>					
Rated AC Power Output	8000	10000	12000	15000	W
Maximum AC Power Output	8000	10000	12000	15000	W
AC Output Voltage (Nominal)	480				Vac
AC Output Voltage Range	425 - 528				Vac
AC Frequency (Nominal)	60				Hz
AC Frequency Range	59.3 - 60.5				Hz
Maximum Continuous Output Current (per Phase)	10	13	16	19	A
Total Harmonic Distortion (THD) at Maximum Power	< 3				%
Power Factor	> 0.99				
GFDI	1				A
Maximum DC Injection	130				mA
Grids Supported - Three Phase	277 / 480 WYE				V
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes				
<b>INPUT</b>					
Recommended Maximum DC Power (Module STC)	8400	10400	12500	15600	W
Transformer-less, Ungrounded	Yes				
Maximum Input Voltage	600				Vdc
Required DC Inputs	2				
Nominal DC Input Voltage	425				Vdc
Maximum Current per Input	12	14.5	17.5	22	Adc
Reverse-Polarity Protection	Yes				
Ground-Fault Isolation Detection	600 kΩ Sensitivity				
Maximum Inverter Efficiency	98				%
European Weighted Efficiency	97.7	97.5	97.3	97.3	%
CEC Weighted Efficiency	97.5	97.5	97.5	97	%
Nighttime Power Consumption	< 2.5				W
<b>STANDARD COMPLIANCE</b>					
Safety	UL1741, IEC-62103 (EN50178), Draft IEC-62109				
Grid Connection Standards	NEC, VDE 0126-1-1, AS-4777, RD-1663, DK 5940, IEEE1547				
Emissions	FCC part15 class B, IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12				
WEEE, RoHS	Yes				
<b>INSTALLATION SPECIFICATIONS</b>					
Dimensions (WxLxH)	27.5x12.5x8				in
Weight	55				lb
Operating Temperature Range	-10 - +120				°F
Cooling	Fan				
Protection Rating	NEMA 3R - Rainproof				
Bracket Mounted (Bracket Provided), Integral DC Switch					

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