



SolarEdge Three Phase Inverters for the 208V Grid for North America

SE9KUS / SE14.4KUS

INVERTERS



The best choice for SolarEdge enabled systems

- Specifically designed to work with power optimizers
- Integrated arc fault protection for NEC 2011 690.11
- Rapid shutdown for NEC 2014 690.12
- Outdoor and indoor installation
- Built-in module-level monitoring
- Internet connection through Ethernet or Wireless
- Small, lightweight and easy to install on provided bracket
- Fixed voltage inverter, DC/AC conversion only
- Integrated Safety Switch



Three Phase Inverters for the 208V Grid for North America

SE9KUS / SE14.4KUS⁽¹⁾

	SE9KUS		SE14.4KUS	
OUTPUT				
Rated AC Power Output	9000		14400	VA
Maximum AC Power Output	9000		14400	VA
AC Output Line Connections	4-wire WYE (L1-L2-L3-N) plus PE or 3 wire Delta			
AC Output Voltage Minimum-Nominal-Maximum ⁽²⁾ (L-N)	105-120-132.5			Vac
AC Output Voltage Minimum-Nominal-Maximum ⁽²⁾ (L-L)	183-208-229			Vac
AC Frequency Min-Nom-Max ⁽²⁾	59.3 - 60 - 60.5			Hz
Max. Continuous Output Current (per Phase)	25		40	A
GFDI Threshold	1			A
Utility Monitoring, Islanding Protection, Country Configurable Set Points	Yes			
INPUT				
Maximum DC Power (Module STC)	12150		19400	W
Transformer-less, Ungrounded	Yes			
Maximum Input Voltage DC to Gnd	250		300	Vdc
Maximum Input Voltage DC+ to DC-	500		600	Vdc
Nominal Input Voltage DC to Gnd		200		Vdc
Nominal Input Voltage DC+ to DC-		400		Vdc
Maximum Input Current	26.5		38	Adc
Max. Input Short Circuit Current		45		Adc
Reverse-Polarity Protection	Yes			
Ground-Fault Isolation Detection	1MΩ Sensitivity		350kΩ Sensitivity ⁽³⁾	
CEC Weighted Efficiency	96.5		97	%
Night-time Power Consumption	< 3		< 4	W
ADDITIONAL FEATURES				
Supported Communication Interfaces	RS485, Ethernet, ZigBee (optional)			
Rapid Shutdown – NEC 2014 690.12	Manual Rapid Shutdown ⁽⁴⁾		Automatic Rapid Shutdown upon AC Grid Disconnect ⁽⁵⁾	
STANDARD COMPLIANCE				
Safety	UL1741, UL1699B, UL1998, CSA 22.2			
Grid Connection Standards	IEEE1547			
Emissions	FCC part15 class B			
INSTALLATION SPECIFICATIONS				
AC output conduit size / AWG range	3/4” minimum / 12-6 AWG			
DC input conduit size / AWG range	3/4” minimum / 12-6 AWG			
Number of DC inputs	2 pairs	3 pairs (with fuses on plus & minus) ⁽⁶⁾		
Dimensions (HxWxD)	21 x 12.5 x 10.5 / 540 x 315 x 260			in/mm
Dimensions with Safety Switch (HxWxD)	30.5 x 12.5 x 10.5 / 775 x 315 x 260			in/mm
Weight	73.2 / 33.2	99.5 / 45		
Weight with Safety Switch	79.7 / 36.2	106 / 48		
Cooling	Fans (user replaceable)			
Noise	< 50		< 55	dBA
Operating Temperature Range	-40 to +140 / -40 to +60			°F/°C
Protection Rating	NEMA 3R			

⁽¹⁾ For 277/480V inverters refer to: <http://www.solaredge.com/files/pdfs/products/inverters/se-three-phase-us-inverter-datasheet.pdf>

⁽²⁾ For other regional settings please contact SolarEdge support

⁽³⁾ Where permitted by local regulations

⁽⁴⁾ With installation of rapid shutdown kit; contact SolarEdge for kit P/N

⁽⁵⁾ P/N of inverter with automatic rapid shutdown: SE14.4K-USR28NNF4

⁽⁶⁾ Field replacement kit for 1 pair of inputs P/N: DCD-3PH-1TBK



RoHS