



SolarEdge Three Phase Inverters

For North America

SE9KUS (208V) / SE10KUS (480V) / SE20KUS (480V)



INVERTERS

The best choice for SolarEdge enabled systems

- Integrated arc fault protection (Type 1) for NEC 2011 690.11 compliance
- Rapid shutdown functionality supported
- Superior efficiency (98%)
- Small, lightweight and easy to install on provided bracket
- Built-in module-level monitoring
- Internet connection through Ethernet or Wireless
- Outdoor and indoor installation
- Fixed voltage inverter, DC/AC conversion only
- Integrated Safety Switch



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	SE9KUS	SE10KUS	SE20KUS	
OUTPUT				
Rated AC Power Output	9000	10000	20000	VA
Maximum AC Power Output	9000	10000	20000	VA
AC Output Line Connections	4-wire WYE (L1-L2-L3-N) plus PE			
AC Output Voltage Minimum-Nominal-Maximum ⁽¹⁾ (L-N)	105-120-132.5	244-277-305		Vac
AC Output Voltage Minimum-Nominal-Maximum ⁽¹⁾ (L-L)	183-208-229	422.5-480-529		Vac
AC Frequency Min-Nom-Max	59.3 - 60 - 60.5 (with HI country setting 57 - 60 - 60.5)			Hz
Max. Continuous Output Current (per Phase)	25	12	24	A
GFDI Threshold	1			A
Utility Monitoring, Islanding Protection, Country Configurable Set Points	Yes			
INPUT				
Maximum DC Power (Module STC)	12150	13500	27000	W
Transformer-less, Ungrounded	Yes			
Maximum Input Voltage DC to Gnd	250	490		Vdc
Maximum Input Voltage DC+ to DC-	500	980		Vdc
Nominal Input Voltage DC to Gnd	200	425		Vdc
Nominal Input Voltage DC+ to DC-	400	850		Vdc
Maximum Input Current	26.5	13.5	26.5	Adc
Reverse-Polarity Protection	Yes			
Ground-Fault Isolation Detection	1MΩ Sensitivity			
Maximum Inverter Efficiency	97.1	98.2	98.1	%
CEC Weighted Efficiency	96.5	98	98	%
Night-time Power Consumption	< 3			W
ADDITIONAL FEATURES				
Supported Communication Interfaces	RS485, RS232, Ethernet, ZigBee (optional)			
Rapid Shutdown – NEC 2014 690.12	Functionality enabled when SolarEdge rapid shutdown kit is installed ⁽²⁾			
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 / # of strings / AWG range	3/4" minimum / 1-2 strings / 12-6 AWG			
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			lb/kg
Weight with Safety Switch	79.7 / 36.2			lb/kg
Cooling	Fans (user replaceable)			
Noise	< 50			dBA
Operating Temperature Range	-13 to +140 / -25 to +60 (-40 to +60 version available) ⁽³⁾			°F/°C
Protection Rating	NEMA3R			

⁽¹⁾ For other regional settings please contact SolarEdge support.

⁽²⁾ Rapid shutdown kit P/N: SE1000-RSD-S2 for SE9KUS, SE1000-RSD-S3 for SE10KUS and SE20KUS.

⁽³⁾ -40 version P/Ns: SE9K-US028NNU4 and SE10K-US048NNU4.



RoHS