

SolarEdge Three Phase Inverters for the 277/480V Grid for North America

SE10KUS / SE20KUS / SE33.3KUS



The best choice for SolarEdge enabled systems

- Specifically designed to work with power optimizers
- Superior efficiency (98.5%)
- Integrated arc fault protection and rapid shutdown for NEC 2014 and 2017, per article 690.11 and 690.12
- UL1741 SA certified, for CPUC Rule 21 grid compliance
- Built-in module-level monitoring
- Internet connection through Ethernet or Wireless
- Small, lightweight and easy to install outdoors or indoors on provided bracket
- Fixed voltage inverter for longer strings
- Integrated Safety Switch and DC fuses (plus & minus)



Three Phase Inverters for the 277/480V Grid(1) for North America

SE10KUS / SE20KUS / SE33.3KUS

	SE10KUS	SE20KUS	SE33.3KUS	
OUTPUT				
Rated AC Power Output	10000	20000	33300	VA
Maximum AC Power Output	10000	20000	33300	VA
AC Output Line Connections	4-wire WYE (L1-L2-L3-N) plus PE			
AC Output Voltage Minimum-Nominal-Maximum ⁽²⁾ (L-N)	244-277-305			Vac
AC Output Voltage Minimum-Nominal-Maximum ⁽²⁾ (L-L)	422.5-480-529			Vac
AC Frequency Min-Nom-Max ⁽²⁾	59.3 - 60 - 60.5		Hz	
Max. Continuous Output Current (per Phase)	12	24	40	А
GFDI Threshold	1		Α	
Utility Monitoring, Islanding Protection,				
Country Configurable Set Points		Yes		
INPUT				
Maximum DC Power (Module STC)	13500	27000	45000	W
Transformer-less, Ungrounded		Yes		
Maximum Input Voltage DC to Gnd	490			Vdc
Maximum Input Voltage DC+ to DC-	980		Vdc	
Nominal Input Voltage DC to Gnd	420		Vdc	
Nominal Input Voltage DC+ to DC-	840		Vdc	
Maximum Input Current	13.5	26.5	40	Adc
Max. Input Short Circuit Current		45	. 1	Adc
Reverse-Polarity Protection	Yes			
Ground-Fault Isolation Detection	1MΩ Sensitivity 350kΩ Sensitivity ⁽³⁾			
CEC Weighted Efficiency	98 98.5		%	
Night-time Power Consumption	<3 <4			
ADDITIONAL FEATURES			7.1	
Supported Communication Interfaces	RS48	35, Ethernet, ZigBee (option	nnal)	
Rapid Shutdown - NEC 2014 and 2017 690.12	Automatic Rapid Shutdown upon AC Grid Disconnect ⁽⁴⁾			
STANDARD COMPLIANCE	Automatic Nap	na shataown apon Ac an	d Disconnect	
	UI 1741. UI 1741 SA. U	II 1699B. CSA C22.2. Canad	dian AFCI according to	
Safety	UL1741, UL1741 SA, UL1699B, CSA C22.2, Canadian AFCI according to T.I.L. M-07			
Grid Connection Standards	IEEE1547, Rule 21, Rule 14 (HI)			
Emissions	FCC part15 class B			
INSTALLATION SPECIFICATIONS		. 00 parties orace is		
AC output conduit size / AWG range		3/4" minimum / 12-6 AWC	i	
DC input conduit size / AWG range	3/4" minimum / 12-6 AWG			
			3 pairs (with fuses on	
Number of DC inputs	2 p	pairs	plus & minus) ⁽⁵⁾	
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		lb / kg	
Weight with Safety Switch		/36.2	106 / 48	Ib / kg
Cooling		Fans (user replaceable)	100/40	!\\ /. !\\\
Noise		50		dBA
		-40 to +140 / -40 to +60	< 55	°F / °C
Operating Temperature Range Protection Rating				
riolection nating	NEMA 3R			l

 $^{^{(1)}} For 208V inverters \ refer to: \underline{http://www.solaredge.com/files/pdfs/products/inverters/se-three-phase-us-inverter-208V-data sheet.pdf} \\$



⁽a) For 208V inverters refer to: http://www.solareage.com/nies/puis/products/niverters/se-times-puis-times-pui