

Three Phase Inverters for the 120/208V Grid For North America

SE10KUS / SE17.3KUS



The best choice for SolarEdge enabled systems

- / Specifically designed to work with power optimizers
- / Quick and easy inverter commissioning directly from a smartphone using SolarEdge SetApp
- / Fixed voltage inverter for superior efficiency and longer strings
- / Built-in type 2 DC and AC Surge Protection, to better withstand lightning events
- / Small, lightest in its class, and easy to install outdoors or indoors on provided bracket
- / Integrated arc fault protection and rapid shutdown for NEC 2014 – 2023, per article 690.11 and 690.12
- / Built-in module-level monitoring with Ethernet, wireless or cellular communication for full system visibility
- / Integrated Safety Switch
- / UL 1741 SA and SB certified, for CPUC Rule 21 grid compliance

/ Three Phase Inverters for the 120/208V Grid⁽¹⁾

For North America

SE10KUS / SE17.3KUS

Model Number	SE10KUS	SE17.3KUS	
Applicable to inverters with part number	SEXKX-USX2IXXXX		
OUTPUT			
Rated AC Power Output	10000	17300	W
Maximum Apparent AC Output Power	10000	17300	VA
AC Output Line Connections	3W + PE, 4W + PE		
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 Minimum-Nominal-Maximum ⁽²⁾	59.3 – 60 – 60.5		Hz
Continuous Output Current (per Phase)	27.8	48.25	Aac
GFDI Threshold	1		A
Utility Monitoring, Islanding Protection, Country Configurable Set Points	Yes		
THD	≤ 3		%
Power Factor Range	+/- 0.85 to 1		
INPUT			
Maximum DC Power (Module STC)	17500	30275	W
Transformer-less, Ungrounded	Yes		
Maximum Input Voltage DC+ to DC-	600		Vdc
Operating Voltage Range	370 – 600		Vdc
Maximum Input Current	27.8	48.25	Adc
Maximum Input Short Circuit Current	55		Adc
Reverse-Polarity Protection	Yes		
Ground-Fault Isolation Detection	167kΩ Sensitivity ⁽³⁾		
CEC Weighted Efficiency	97	97.5	%
Night-time Power Consumption	< 4		W
ADDITIONAL FEATURES			
Supported Communication Interfaces	2 x RS485, Ethernet, Cellular (optional)		
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi access point for local connection		
Rapid Shutdown	NEC 2014 – 2023, built-in		
RS485 Surge Protection Plug-in	Supplied with the inverter, built-in		
AC, DC Surge Protection	Type II, field replaceable, built-in		
DC Fuses (Single Pole)	25A, built-in		
Smart Energy Management	Export Limitation		
VAR at Night	Yes ⁽⁴⁾		
DC SAFETY SWITCH			
DC Disconnect	Integrated		
STANDARD COMPLIANCE			
Safety	UL 1741; UL 1741 SA; UL 1741 SB; UL 1699B; CSA C22.2; Canadian AFCI according to T.I.L. M-07		
Grid Connection Standards	IEEE 1547-2018, Rule 21, Rule 14 (HI)		
Emissions	FCC Part 15 Class A		
INSTALLATION SPECIFICATIONS			
AC Output Conduit size /AWG range	¾" or 1" / 6 - 10 AWG		
DC Input Conduit size / AWG range	¾" or 1" / 6 - 12 AWG		
Number of DC inputs pairs	4		
Dimensions with Safety Switch (H x W x D)	31.8 x 12.5 x 11.8 / 808 x 317 x 300		in / mm
Weight with Safety Switch	78.2 / 35.5		lb / kg
Cooling	Fans (user replaceable)		
Noise	< 62		dBA
Operating Temperature Range	-40 to +140 / -40 to +60 ⁽⁵⁾		°F / °C
Protection Rating	NEMA 3R		
Mounting	Bracket provided		

(1) For 277/480V inverters refer to the [Three Phase Inverters for the 277/480V Grid for North America](#) datasheet.

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

(3) Where permitted by local regulations.

(4) For information about enabling VAR at Night refer to the [Set Volt-Ampere Reactive at Night](#) application note.

(5) For power derating information refer to the [Temperature Derating](#) technical note for North America.