

Three Phase Commercial Inverter

USA Domestic Content Eligible*

For North America

SE10KUS / SE17.3KUS / SE30KUS / SE40KUS

INVERTER



SolarEdge's USA-manufactured offering for C&I rooftops and carports

- Eligible for domestic content*: SolarEdge's USA-manufactured inverters, when paired with certain SolarEdge USA-manufactured power optimizers, are intended to be eligible for the enhanced federal income tax credit for domestic content
- Specifically designed to work with power optimizers
- Quick and easy inverter commissioning directly from a smartphone using SolarEdge SetApp
- Fixed DC voltage inverter for superior efficiency and longer strings
- Small, lightest in its class, and easy to install outdoors or indoors on provided bracket
- Built-in type 2 DC and AC Surge Protection, to better withstand lightning events
- Integrated arc fault protection and rapid shutdown for NEC 2014 – 2023, per articles 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

* Manufactured by SolarEdge with the intent to be eligible for inclusion under the elective safe harbor in calculating the Domestic Content Percentage under the "Rooftop (MLPE)" category (under IRS Notice 2024-41). The PCBA, Electrical Parts, and Enclosure are domestically manufactured to meet the requirements of eligibility to be considered for the ITC domestic content bonus adder. SolarEdge does not provide tax and/or legal advice. You should consult with your own legal and/or tax advisor(s) regarding the eligibility of your project for the ITC or PTC, including the 10% domestic content bonus, to determine how the applicable rules apply to your particular project. The forward-looking statements in this datasheet are accurate as of the date herein and are subject to change. For more information, please contact your local SolarEdge sales representative.

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Applicable to inverters with part number Model Number	USE-SIN-USxxlxxxx				UNITS
	SE10KUS	SE17.3KUS	SE30KUS	SE40KUS	
OUTPUT					
Maximum AC Output Capacity	40,000				W
Rated AC Power Output	10,000	17,300	30,000	40,000	W
Maximum Apparent AC Output Power	10,000	17,300	30,000	40,000	VA
AC Output Line Connections	3W + PE, 4W + 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 ⁽¹⁾	59.3 – 60 – 60.5		59.3 – 60 – 60.5		Hz
Maximum Continuous Output Current (per Phase)	27.8	48.25	36.25	48.25	Aac
GFDI Threshold	1				A
Utility Monitoring, Islanding Protection, Country Configurable Set Points	Yes				
Total Harmonic Distortion	≤ 3				%
Power Factor Range	+/- 0.85 to 1				
INPUT⁽²⁾					
Maximum DC Power (Module STC)	17,500	30,275	52,500	70,000	W
Transformer-less, Ungrounded	Yes				
Maximum Input Voltage DC+ to DC-	600		1000		Vdc
Operating Voltage Range	370 – 600		840 – 1000		Vdc
Maximum Input Current	27.8	48.25	36.25	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	98.5		%
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 access point for local connection				
Arc Fault Protection	Integrated, User Configurable (According to UL 1699B)				
Photovoltaic Rapid Shutdown System	NEC 2014 – 2023, built-in, if paired with C651U				
RS485 Surge Protection Plug-in	Supplied with the inverter, built-in				
DC Surge Protection	Type II, field replaceable, built-in				
AC Surge Protection	Type II, field replaceable, built-in				
Smart Energy Management	Export Limitation				
DC SAFETY SWITCH					
DC Disconnect	Integrated				
STANDARD COMPLIANCE					
Safety	UL 1741; UL 1741 SA; UL 1741 SB; UL 1699B; CSA C22.2#107.1; 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 Input Pairs (Fuseless)	3				
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 ⁽⁴⁾				°F / °C
Protection Rating	NEMA 3R				
Mounting	Bracket provided				

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

(2) For compatibility of inverters and power optimizers, see this [technical note](#).

(3) Where permitted by local regulations.

(4) For power derating information, see the [Temperature Derating](#) technical note.