## NVERTERS

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

SE20KUS / SE30KUS / SE33.3KUS / SE40KUS



## The best choice for SolarEdge enabled systems

- Specifically designed to work with power optimizers
- Quick and easy inverter commissioning directly from a smartphone using the SolarEdge SetApp
- Fixed voltage inverter for superior efficiency (98.5%) 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 and 2017, 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
- UL1741 SA certified, for CPUC Rule 21 grid compliance



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

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MODEL NUMBER	SE20KUS	SE30KUS	SE33.3KUS	SE40KUS	,
APPLICABLE TO INVERTERS WITH PART NUMBER	SEXXK - USXXXBXXX				
OUTPUT					•
Rated AC Power Output	20000	30000	33300	40000	W
Maximum apparent AC output power	20000	30000	33300	40000	VA
AC Output Line Connections	4W + PE		3W + PE, 4W + PE		
AC Output Voltage Minimum-Nominal-Maximum <sup>(2)</sup> (L-N)	244 - 277 - 305			Vac	
AC Output Voltage Minimum-Nominal-Maximum <sup>(2)</sup> (L-L)	422.5 - 480 - 529			Vac	
AC Frequency Min-Nom-Max <sup>(2)</sup>	59.3 - 60 - 60.5			Hz	
Maximum Continuous Output Current (per Phase)	24	36.25	40	48.25	Aac
GFDI Threshold			1		Α
Utility Monitoring, Islanding Protection, Country Configurable Set Points	Yes				
Total Harmonic Distortion	≤ 3			%	
Power Factor Range		+/- 0	.85 to 1		
INPUT					
Maximum DC Power (Module STC)	27000	45000	50000	60000	W
Transformer-less, Ungrounded		١	/es		
Maximum Input Voltage DC+ to DC-	1000				Vdc
Nominal Input Voltage DC+ to DC-		8	350		Vdc
Maximum Input Current	26.5	36.25	40	48.25	Adc
Maximum Input Short Circuit Current	33		55		Adc
Reverse-Polarity Protection	Yes				
Ground-Fault Isolation Detection	1MΩ Sensitivity	MΩ Sensitivity 167kΩ Sensitivity <sup>(3)</sup>			
CEC Weighted Efficiency	98	98.5			%
Night-time Power Consumption	<3		<4		W
ADDITIONAL FEATURES					
Supported Communication Interfaces		2 x RS485. Etherne	et, 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 UL1699B)				
Rapid Shutdown	NEC2014, NEC2017 and NEC2020 compliant/certified				
RS485 Surge Protection Plug-in	Supplied with the inverter, Built-in				
DC Surge Protection	Type II, field replaceable, optional	Type II, field			
AC Surge Protection	-	Type II, field replaceable, Built-in			
DC Fuses (Single Pole)	-	,,	25A, Built-in		
Smart Energy Management		Export Limitation			
DC SAFETY SWITCH		•			
DC Disconnect		Inter	grated		
STANDARD COMPLIANCE		1110	9.4.04		
Safety	UL1741. UL1741 SA	A. UL1699B. CSA C22	.2, Canadian AFCI accor	ding to T.I.L. M-07	
Grid Connection Standards	IEEE1547, Rule 21, Rule 14 (HI)				
Emissions		FCC part15 class A			
INSTALLATION SPECIFICATIONS					
AC output conduit size / AWG range	3/4" minimum / 12-6 AWG		³⁄4" or 1" / 6 - 10 AWG		
DC input conduit size / AWG range	12 UAVIO	³/4" or 1" / 6 - 12 AWG			
Number of DC inputs pairs	2	2 4			
Dimensions with Safety Switch (H x W x D)	30.5 x 12.5 x 10.5 / 775 x 315 x 260	31.8 × 12.5 × 11.8 / 808 × 317 × 300		in / mm	
		78.2 / 35.5		lb / kg	
Weight with Safety Switch	74.2 / 33.7	Fans (user replaceable)			. 9
Weight with Safety Switch Cooling	74.2 / 33.7	Fans (user			
	74.2 / 33.7 < 50	Fans (user			dBA
Cooling		·	replaceable)		dBA °F/°C
Cooling Noise		-40 to +140	replaceable) < 62		

For 120/208V inverters refer to: https://www.solaredge.com/si
 For other regional settings please contact SolarEdge support
 Where permitted by local regulations

<sup>(4)</sup> For power de-rating information refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf