

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

SE10KUS / SE20KUS / SE30KUS / SE33.3KUS



The best choice for SolarEdge enabled systems

- Specifically designed to work with power optimizers
- Quick and easy inverter commissioning directly from a smartphone using the SolarEdge SetApp
- Superior efficiency (98%)
- 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
- Supplied with RS485 Surge Protection Device, to better withstand lightning events

solaredge

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	SE10KUS	SE20KUS	SE30KUS	SE33.3KUS	
APPLICABLE TO INVERTERS WITH PART NUMBER		SEXXK-XX	XXXBXX4		
OUTPUT					
Rated AC Power Output	10000	20000	30000	33300	VA
Maximum AC Power Output	10000	20000	30000	33300	VA
AC Output Line Connections		3 phase, 4-wire / PE	(L1-L2-L3-N), TN, TT	Γ	
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	36.5	40	A
GFDI Threshold		1			A
Utility Monitoring, Islanding Protection,	74				
Country Configurable Set Points	Yes				
THD	≤3				%
NPUT					
Maximum DC Power (Module STC)	13500	27000	40500	45000	W
Transformer-less, Ungrounded		Ye			
Maximum Input Voltage DC to Gnd	490				Vdc
Maximum Input Voltage DC+ to DC-	1000				Vdc
Nominal Input Voltage DC to Gnd	420			Vdc	
Nominal Input Voltage DC+ to DC-	840			Vdc	
Maximum Input Current	13.5	26.5	39	40	Adc
Maximum Input Short Circuit Current		4!			Adc
Reverse-Polarity Protection		Ye			- Auc
Ground-Fault Isolation Detection	1MΩ Sensitvity 350kΩ Sensitivity ⁽³⁾				
CEC Weighted Efficiency	98 98.5			%	
Night-time Power Consumption	<pre></pre>				
ADDITIONAL FEATURES		 		<u> </u>	
Supported Communication Interfaces		2 v DS/05 Ethornot D	uilt in CSM (ontion:	21)	
	2 x RS485, Ethernet, Built-in GSM (optional) With the SetApp mobile application using built-in Wi-Fi station				
Inverter Commissioning	for local connection				
Rapid Shutdown – NEC 2014 and 2017 690.12	Automatic Rapid Shutdown upon AC Grid Disconnect ⁽⁴⁾				
RS485 Surge Protection	Supplied with the inverter				
Smart Energy Management	Export Limitation				
STANDARD COMPLIANCE		'			
	UL1741, UL1741 SA, UL1699B, CSA C22.2, Canadian AFCI according to				
Safety	T.I.L. M-07				
Grid Connection Standards	IEEE1547, Rule 21, Rule 14 (HI)				
Emissions	FCC part15 class B				
INSTALLATION SPECIFICATIONS					
AC output conduit size / AWG range	3/4" minim	um / 12-6 AWG	3/4" minim	um / 8-4 AWG	
DC input conduit size / AWG range		3/4" minimun			
Number of DC inputs		2 pairs		airs ⁽⁵⁾	
Dimensions (H x W x D)	······	21 x 12.5 x 10.5 /			in / m
Dimensions with Safety Switch (H x W x D)		30.5 x 12.5 x 10.5			in / m
Weight	72	2/33.2		5 / 45	lb / k
Weight with Safety Switch		7 / 36.2		5 / 43 6 / 48	lb / k
		Fans (user re		U / -TU	/ N
Cooling		< 50		55	dBA
Noise					
Operating Temperature Range	-40 to +140 / -40 to +60 ⁽⁶⁾ NEMA 3R				°F/°C
Protection Rating		208V-setapp-datasheet.pdf	M JN		

(1) For 120/208V Inverters refer to: https://www.solid.cog.doi.org/ (2) For other regional settings please contact SolarEdge support
 (3) Where permitted by local regulations

⁶⁷ Where permitted by local regulations
 ⁶⁹ PNS SEID(SXE2XX) CASE We Manual Rapid Shutdown for NEC 2014 compliance (NEC 2017 compliance with outdoor installaton)
 ⁶³ Field replacement kit for 1 pair of inputs P/N: DCD-3PH-1TBK; Field replacement kit for 3 pairs of fuses and holders P/N: DCD-3PH-6FHK-S1
 ⁶⁶ For power de-rating information refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf



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