

## **SolarEdge 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
- 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
- Supplied with RS485 Surge Protection Device, to better withstand lightning events



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

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	SE10KUS	SE20KUS	SE30KUS	SE33.3KUS	
OUTPUT					
Rated AC Power Output	10000	20000	30000	33300	VA
Maximum AC Power Output	10000	20000	30000	33300	VA
AC Output Line Connections	4-wire WYE (L1-L2-L3-N) plus 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	
Max. Continuous Output Current (per Phase)	12	24	36.5	40	Α
GFDI Threshold			1		А
Utility Monitoring, Islanding Protection,	Yes				
Country Configurable Set Points		Υ.	es		
INPUT					
Maximum DC Power (Module STC)	13500	27000	40500	45000	W
Transformer-less, Ungrounded		Y	es		
Maximum Input Voltage DC to Gnd	490				Vdc
Maximum Input Voltage DC+ to DC-	980			Vdc	
Nominal Input Voltage DC to Gnd		4:	20		Vdc
Nominal Input Voltage DC+ to DC-		84	40	***************************************	Vdc
Maximum Input Current	13.5	26.5	39	40	Adc
Maximum Input Short Circuit Current		4	!5	***************************************	Adc
Reverse-Polarity Protection		Y	es	• • • • • • • • • • • • • • • • • • • •	
Ground-Fault Isolation Detection	1MΩ Sensitivity 350kΩ Sensitivity <sup>(3)</sup>				
CEC Weighted Efficiency	98		98.5		%
Night-time Power Consumption	< 3		< 4		W
ADDITIONAL FEATURES					'
Supported Communication Interfaces	RS485, Ethernet, ZigBee (optional)				
Rapid Shutdown — NEC 2014 and 2017 690.12	Automatic Rapid Shutdown upon AC Grid Disconnect <sup>(4)</sup>				
RS485 Surge Protection	Supplied with the inverter				
STANDARD COMPLIANCE	·				
C f .	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" minimu	m / 12-6 AWG	3/4" minimu	ım / 8-4 AWG	
DC input conduit size / AWG range		3/4" minimui	m / 12-6 AWG	• • • • • • • • • • • • • • • • • • • •	
Number of DC inputs	2 p	pairs	3 pa	airs <sup>(5)</sup>	
Dimensions (H x W x D)			/ 540 x 315 x 260		in / mm
Dimensions with Safety Switch (H x W x D)			/ 775 x 315 x 260		in / mm
Weight	73.2	/ 33.2		5 / 45	lb / kg
Weight with Safety Switch		/ 36.2		/ 48	lb / kg
Cooling		Fans (user r		*******************	
Noise	<	50	p. 4	55	dBA
Operating Temperature Range			/ -40 to +60 <sup>(6)</sup>	*****************	°F/°C
	NEMA 3R				



<sup>(1)</sup> For 208V inverters refer to: http://www.solaredge.com/files/pdfs/products/inverters/se-three-phase-us-inverter-208V-datasheet.pdf (2) For other regional settings please contact SolarEdge support (3) Where permitted by local regulations (4) P/NS EIGN/SE20K-USOXxxxxx have Manual Rapid Shutdown for NEC 2014 compliance (NEC 2017 compliance with outdoor installation) (5) 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 (6) For power de-rating information refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf