

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

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 (98.5%)
- 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

SE30KUS / SE33.3KUS

	SE30KUS	SE33.3KUS	
APPLICABLE TO INVERTERS WITH PART NUMBER	SEXXK-XXXXXBXX4		
OUTPUT			
Rated AC Power Output	30000	33300	VA
Maximum AC Power Output	30000	33300	VA
AC Output Line Connections	3 phase, 4-wire /	PE (L1-L2-L3-N), TN, TT	
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)	36.5	40	A
GFDI Threshold		1	Α
Utility Monitoring, Islanding Protection,			
Country Configurable Set Points		Yes	
THD	≤3		%
INPUT			
Maximum DC Power (Module STC)	40500	45000	W
Transformer-less, Ungrounded		Yes	
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	39	40	Adc
Maximum Input Current  Maximum Input Short Circuit Current	39	45	Adc
			Auc
Reverse-Polarity Protection Ground-Fault Isolation Detection	Yes		
	350kΩ Sensitivity <sup>(3)</sup>		0/
CEC Weighted Efficiency		98.5	%
Night-time Power Consumption		< 4	W
ADDITIONAL FEATURES	2 DC405 File	L. D. Th. L. CCMA (s. cl. c. cl.)	
Supported Communication Interfaces	2 x RS485, Ethernet, Built-in GSM (optional)		
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi station		
D 1161 11 NEG 2014 12017 600 12	for local connection		
Rapid Shutdown – NEC 2014 and 2017 690.12	Automatic Rapid Shutdown upon AC Grid Disconnect		
RS485 Surge Protection	Supplied with the inverter		
Smart Energy Management	Expor	t Limitation	
STANDARD COMPLIANCE			1
Safety	UL1741, UL1741 SA, UL1699B, CSA C22.2, Canadian AFCI according		
	T.I.L. M-07		
Grid Connection Standards	IEEE1547, Rule 21, Rule 14 (HI)		
Emissions	FCC pa	art15 class B	
INSTALLATION SPECIFICATIONS			
AC output conduit size / AWG range	3/4" minir	num / 8-4 AWG	
DC input conduit size / AWG range	3/4" minin	num / 12-6 AWG	
Number of DC inputs	3	pairs <sup>(4)</sup>	
Dimensions (H x W x D)	21 x 12.5 x 10	.5 / 540 x 315 x 260	in / mm
Dimensions with Safety Switch (H x W x D)	30.5 x 12.5 x 1	0.5 / 775 x 315 x 260	in / mm
Weight	99	9.5 / 45	lb/kg
Weight with Safety Switch		06 / 48	lb / kg
Cooling		er replaceable)	
			dBA
Noise		< 55	UDA
Noise Operating Temperature Range	-40 to +14	< 55 10 / -40 to +60 <sup>(5)</sup>	°F/°C



<sup>(1)</sup> For 120/208V inverters refer to: <a href="http://www.solaredge.com/files/pdfs/products/inverters/se-three-phase-us-inverter-208V-datasheet.pdf">http://www.solaredge.com/files/pdfs/products/inverters/se-three-phase-us-inverter-208V-datasheet.pdf</a>
(2) For other regional settings please contact SolarEdge support
(3) Where permitted by local regulations
(4) 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
(5) For power de-rating information refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf">https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf</a>