

## **Three Phase Inverter**

with Synergy Technology for the 208V Grid For North America

SE43.2KUS



## Specifically designed to work with power optimizers

- Easy two-person installation each unit mounted separately, equipped with cables for simple connection between units
- Balance of System and labor reduction compared to using multiple smaller string inverters
- Independent operation of each unit enables higher uptime and easy serviceability
- No wasted ground area: wall/rail mounted, or horizontally mounted under the modules (10° inclination)
- 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 or cellular GSM
- Fixed voltage inverter for superior efficiency (97%) and longer strings
- Integrated DC Safety Switch and optional surge protection & DC fuses (plus & minus)
- Built-in RS485 Surge Protection, to better withstand lightning events



## for the 208V Grid for North America SE43.2KUS

	SE43.2KUS	
DUTPUT		
Rated AC Power Output	43200	VA
Naximum AC Power Output	43200	VA
C Output Line Connections	4-wire WYE (L1-L2-L3-N) plus PE or 3 wire Delta	.
C Output Voltage Minimum-Nominal-Maximum <sup>(1)</sup> (L-N)	105-120-132.5	Vac
AC Output Voltage Minimum-Nominal-Maximum <sup>(1)</sup> (L-L)	183-208-229	Vac
AC Frequency Min-Nom-Max <sup>(1)</sup>	59.3 - 60 - 60.5	Hz
Maximum Continuous Output Current (per Phase) @208V	120	A
GFDI Threshold Utility Monitoring, Islanding Protection, Configurable Power	1	A
Factor, Country Configurable Thresholds	Yes	
NPUT		
Maximum DC Power (Module STC), Inverter / Unit	58200 / 19400	W
ransformer-less, Ungrounded	Yes	
Maximum Input Voltage DC to Gnd	300	Vdc
Maximum Input Voltage DC+ to DC-	600	Vdc
Nominal Input Voltage DC to Gnd	200	Vdc
Nominal Input Voltage DC+ to DC-	400	Vdc
Maximum Input Current	114	Adc
Maximum Input Short Circuit Current	135	Adc
Reverse-Polarity Protection	Yes	
Ground-Fault Isolation Detection	350kΩ Sensitivity per Unit	
CEC Weighted Efficiency	97	%
lighttime Power Consumption	< 12	W
ADDITIONAL FEATURES		
Supported Communication Interfaces	RS485, Ethernet, Cellular GSM (optional)	
Rapid Shutdown	NEC2014 and NEC2017 compliant/certified, upon AC Grid Disconnect	
RS485 Surge Protection	Built-in	
DC SAFETY SWITCH		
OC Disconnect	1000V / 3 x 40A	
DC Surge Protection	Optional, Type II, field replaceable	
DC Fuses on Plus & Minus	Optional, 25A	
TANDARD COMPLIANCE <sup>(2)</sup>	Optional, 257	
Safety	UL1741, UL1741 SA, UL1699B, UL1998, CSA 2.22	
Grid Connection Standards	IEEE 1547, Rule 21, Rule 14 (HI)	
Emissions	FCC part15 class A	
NSTALLATION SPECIFICATIONS	rec partis class A	
Namber of units	3	
AC Output Conduit Size / Max AWG / Max PE AWG	2" / 4/0 / 4	
OC Output Conduit Size / Terminal Block AWG Range /		.
Number of Strings <sup>(3)</sup>	2 x 1.25" / 6-14 / 9 strings	
Dimensions (H x W x D)	Primary Unit: 37 x 12.5 x 10.5 / 940 x 315 x 260; Secondary Unit: 21 x 12.5 x 10.5 / 540 x 315 x 260	in / mm
Weight	Primary Unit: 105.8 / 48; Secondary Unit 99.2 / 45	lb / kg
Operating Temperature Range	-40 to +140 / -40 to +60 <sup>(4)</sup>	°F / °C
Cooling	Fan (user replaceable)	.  !-/
Voise	< 60	dBA
	NEMA 3R	. L. UDA
Protection Rating	INCINIA 3IV	.

 $<sup>^{(1)}</sup>$  For other regional settings please contact SolarEdge support

<sup>(</sup>a) Single input option per unit (up to 3AWG) available

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