

Three-phase inverter for Brazil

SE20.1K / SE27.6K / SE33.3K / SE40K

INVERTERS



Specially designed to work with power optimizers

- Fixed voltage inverter for higher efficiency (98.3%) and longer strings
- Quick and easy commissioning of the inverter directly from your cell phone using the SolarEdge SetApp
- Small, the lightest in its category and easy to install
- SPD class II (optional) for RS485, DC and AC: better protection against electrical surges
- Oversizing up to 175%
- Integrated module-level monitoring, with ethernet or wireless communication for complete system visibility
- Advanced safety features integrated arc flash protection and optional rapid shutdown
- IP65 — External and internal installation
- Integrated DC Connection Box (optional) — eliminating the need for external combiner box

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Applicable to inverters with part number		SEXK-BRXXIXXX			
	SE20.1K	SE27.6K	SE33.3K	SE40K	
AC OUTLET					
Rated power	11,600 @ 220/127 20,100 @ 380/220	15,200 @ 220/127 26,400 @ 380/220	18,400 @ 220/127 31,750 @ 380/220	40,000 @ 277/480	W
Maximum power	11,600 @ 220/127 20,100 @ 380/220	15,200 @ 220/127 26,400 @ 380/220	18,400 @ 220/127 31,750 @ 380/220	40,000 @ 277/480	
Nominal Voltage (FF/FN)	380 / 220 ; 220 / 127			480 / 277	Vas
Voltage Range(FF/FN)	323 - 437 / 187 - 253 ; 187 - 253 / 108 - 146			422.5 - 529 / 244 - 305	Vas
Nominal frequency	60 ± 5%				Hz
Maximum Injected Current (per Phase)	30.45	40	48.25		Aac
Three-phase supported grids	3W+PE, 4W+PE				
Network Monitoring, Anti-Islanding Protection, Power Factor Configurable, Configurable Limits by Country	Yes				
Total harmonic distortion	≤3				%
Power factor range	+/- from 0.8 to 1				
Maximum Residual Injected Current¹	100				mA
DC INPUT					
Maximum Peak Power (STC)	20,300 @ 220 / 127 35,175 @ 380 / 220	26,600 @ 220 / 127 46,200 @ 380 / 220	32,200 @ 220 / 127 55,500 @ 380 / 220	70,000 @ 277/480	W
Transformer-less, Ungrounded	Yes				
Maximum Input Voltage	600 @220/127 900 @380/220			1,000 @ 277/480	Vcc
Nominal Input Voltage	400 @220/127 750 @380/220			850 @ 277/480	Vcc
Maximum Input Current	30.45	40	48.25		ACC
Reverse Polarity Protection	Yes				
Ground fault Insolation Detection	167 kΩ sensitivity ^(two)				
Maximum inverter efficiency	98.3			98.1	%
European Efficiency (average)	98				%
Nighttime energy consumption	< 4				W
ADDITIONAL FEATURES					
Supported communication interfaces ⁽³⁾	2 x RS485, Wi-Fi (optional), Cellular (optional)				
Smart Energy Management	Export limitation				
Inverter commissioning	With the SetApp mobile app using the built-in Wi-Fi hotspot for local connection				
Arc flash protection	Integrated, user configurable (according to UL1699B)				
Fast Shutdown	Optional ⁽⁴⁾ (Automatic by disconnection from the AC Network)				
Surge Protection (SPD) RS485 Plug-in	Optional				
Surge Protection (SPD) AC, DC	Type II, field replaceable, optional				
SAFETY DC UNIT (OPTIONAL)					
DC disconnect - 2 Poles	1000V / 48.25A				
DC Fuses - 1 Pole	Optional, 25 A				
Standard Compliance	UTE-C15-712-1				
COMPLIANCE WITH STANDARDS					
Security	IEC-62109, AS3100				
Network connection patterns ⁽⁵⁾	VDE-AR-N-4105, AS-4777, CEI-021,VDE 0126-1-1, CEI-016, BDEW, EN 50549-1				
Emissions	IEC61000-6-2, IEC61000-6-3 Class A, IEC61000-3-11, IEC61000-3-12				
RoHS	Yes				
INSTALLATION SPECIFICATIONS					
AC output cable gland diameter/cable section/PE cable section	Cable diameter: from 19 to 28 mm / from 4 to 16 mm ^(two) / from 4 to 16 mm ^(two)				
DC input ⁽⁶⁾⁽⁷⁾	4 pairs MC4				
DC input with Safety DC unit ⁽⁶⁾⁽⁷⁾	4 strings: Cable Gland: Cable diameter 5 - 10 mm / Cable section 2.5 - 16 mm ^(two)				
Dimensions (HxWxD)	550x317x273				mm
Dimensions with Safety DC unit (HxWxD)	840x328x300				mm
Weight	32				kg
Weight with Safety DC unit	36.5				kg
Operating temperature range	from -40 to +60 ⁽⁸⁾				W
Cooling	Fan(user replaceable)				
Noise level	< 62				dBA
Degree of Protection	IP65 - external and internal environments				
Assembly	Support provided				

(1) If an external DR is required, its actuation value must be greater than or equal to 100 mA per unit

(2) When permitted by local regulations

(3) Wi-Fi connectivity requires connection to an additional Wi-Fi component, sold separately. For more details, contact your SolarEdge reseller or visit: <https://www.solaredge.com/products/communication>

(4) Inverters with rapid shutdown part number: SExxK-xxRxxxxx

(5) See all standards in the Certifications category at <http://www.solaredge.com/groups/support/downloads>

(6) The DC Input is available with MC4 or Cable Gland connectors identified by the inverter part numbers. For more information, consult SolarEdge

(7) Only MC4 connectors manufactured by Staubli are approved for use

(8) For information on 'de-rating', see: <https://www.solaredge.com/sites/default/files/se-temperature-derating-note.pdf>