Three Phase Inverter

For Australia

SE10K-SE27.6K

INVERTERS

Specifically designed to work with power optimisers

- Superior efficiency (98%)
- Quick and easy inverter commissioning directly from a smartphone using the SolarEdge SetApp
- Small, lightest in its class, and easy to install
- Built-in module-level monitoring
- Internet connection through Ethernet or Wireless (Wi-Fi, ZigBee Gateway, Cellular)
- IP65 – Outdoor and indoor installation
- Fixed voltage inverter for longer strings
- Smart Energy Management control
- Integrated DC Safety Unit - eliminates the need for external DC isolators

/ Three Phase Inverter
for Australia
SE10K - SE27.6K[1]

	SE10K[2]	SE12.5K	SE15K	SE16K	SE17K	SE25K	SE27.6K	
Applicable to inverters with part numbers	SEXXK-XXXXXBXX4							
OUTPUT								
Rated AC Power Output	10000	12500	15000	16000	17000	24950	27600	VA
Maximum AC Power Output	10000	12500	15000	16000	17000	24950	27600	VA
AC Output Voltage - Line to Line / Line to Neutral (Nominal)	400 / 230							Vac
AC Output Voltage - Line to Neutral Range	184 - 264.5							Vac
AC Frequency	50/60 ± 5							Hz
Maximum Continuous Output Current (per Phase)	16	20	23	25.5	26	38	40	A
Grids Supported - Three Phase	3 / N / PE (WYE with Neutral); 230 / 400							V
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes							
INPUT								
Maximum DC Power (Module STC)	13500	16850	20250	21600	22950	33750	37250	W
Transformer-less, Ungrounded	Yes							
Nominal DC Input Voltage DC to Gnd	375							
Maximum Input Voltage DC to Gnd	415							
Nominal DC Input Voltage DC+ to DC-	750							Vdc
Maximum Input Voltage DC+ to DC-	830							Vdc
Maximum Input Current	16.5	21	22	23	23	37	40	Adc
Reverse-Polarity Protection	Yes							
Ground-Fault Isolation Detection	700kΩ Sensitivity					350kΩ Sensitivity[3]		
Maximum Inverter Efficiency	98					98.3		%
European Weighted Efficiency	97.6	97.7	97.6	97.7	97.7	98	98	%
Nighttime Power Consumption	< 2.5					< 4		W
ADDITIONAL FEATURES								
Supported Communication Interfaces[4]	2 x RS485, Ethernet, Built-in GSM (Optional)							
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi station for local connection							
Smart Energy Management	Expoer Limitation, Smart Energy							
DC SAFETY UNIT								
2-pole Disconnection	1000V / 23A					1000V / 40A		
STANDARD COMPLIANCE								
Safety	IEC62109, AS/NZS3100							
Grid Connection Standards	AS/NZS4777:2015							
Emissions	IEC61000-6-2, IEC61000-6-3 , IEC61000-3-11, IEC61000-3-12							
RoHS	Yes							
INSTALLATION SPECIFICATIONS								
AC output conduit size / Wire cross section	19mm minimum / 3-16 mm^2							
DC input conduit size / Wire cross section	19mm minimum / 3-16 mm^2							
Dimensions with Safety Unit (HxWxD)	775 x 315 x 191	775 x 315 x 260						mm
Weight	24.9	36.2				48		kg
Operating Temperature Range	-40 - +60 [5]							°C
Cooling	Internal Fan	Fan (user replaceable)						
Noise	< 40	< 50				< 55		dBA
Protection Rating	IP65 - Outdoor and Indoor							
Mounting	Bracket Provided							

(1) These specifications apply only to inverters with part numbers SExxK-AU000NNU2
(2) These specifications apply only to inverters with part number SE10K-AU002NNU2
(3) Where permitted by local regulations
(4) Refer to Datasheets -> Communications category in Downloads page for specifications of optional communication options: http://www.solaredge.com/groups/support/downloads
(5) For power de-rating information refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note.pdf

© SolarEdge Technologies Ltd. All rights reserved. SOLAREDGE, the SolarEdge logo, OPTIMIZED BY SOLAREDGE are trademarks or registered trademarks of SolarEdge Technologies, Inc. All other trademarks mentioned herein are trademarks of their respective owners. Date: 11/2018/V01/ENG AUS. Subject to change without notice.

CE RoHS