

# Three Phase Inverter For Australia

SE30K - SE33.3K



INVERTERS

## Specifically designed to work with power optimizers

- Fixed voltage inverter for superior efficiency (98.3%) and longer strings
- Quick and easy inverter commissioning directly from a smartphone using the SolarEdge SetApp
- Small, lightest in its class, and easy to install
- Optional Type 2 DC and AC surge protection, to better withstand lightning events
- Built-in module-level monitoring with Ethernet or wireless communication for full system visibility
- IP65 outdoor and indoor installation
- Smart Energy Management control
- Future-ready for the SolarEdge energy storage solution
- Integrated DC Safety Unit - eliminates the need for external DC isolators

# / Three Phase Inverter

## For Australia

### SE30K - SE33.3K

	SE30K	SE33.3K	
<b>Applicable to inverters with part number</b>	<b>SEXK-AUX01XXXX</b>		
<b>OUTPUT</b>			
Rated AC Power Output	30000	33300	W
Maximum apparent AC Output Power	30000	33300	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 ± 5%		Hz
Maximum Continuous Output Current (per Phase)	43.5	48.25	Aac
AC Output Line Connections	3W + PE, 4W + PE		
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes		
Total Harmonic Distortion	≤ 3		%
Power Factor Range	+/-0.8 to 1		
<b>INPUT</b>			
Maximum DC Power (Module STC)	45000	50000	W
Transformer-less, Ungrounded	Yes		
Nominal DC Input Voltage DC to Gnd	375		Vdc
Maximum Input Voltage DC to Gnd	415		Vdc
Nominal DC Input Voltage DC+ to DC-	750		
Maximum Input Voltage DC+ to DC-	830		
Maximum Input Current	43.5	48.25	Adc
Short Circuit Current From The PV Array	48.25		Adc
Reverse-Polarity Protection	Yes		
Ground-Fault Isolation Detection	167kΩ Sensitivity <sup>(1)</sup>		
Maximum Inverter Efficiency	98.3		%
European Weighted Efficiency	98		%
Nighttime Power Consumption	< 4		W
<b>ADDITIONAL FEATURES</b>			
Supported Communication Interfaces	2 x RS485, Ethernet, Wi-Fi <sup>(2)</sup>		
Smart Energy Management	Export Limitation		
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi access point for local connection		
Arc Fault Protection	Integrated, User Configurable (According to UL1699B)		
RS485 Surge Protection	Supplied with the inverter		
DC/AC Surge Protection	Type II, field replaceable, Optional		
<b>DC SAFETY UNIT</b>			
DC Disconnect	Integrated		
<b>STANDARD COMPLIANCE</b>			
Safety	IEC62109, AS/NZS3100		
Grid Connection Standards <sup>(3)</sup>	AS/NZS4777:2015		
Emissions	IEC61000-6-2, IEC61000-6-3 Class A, IEC61000-3-11, IEC61000-3-12		
RoHS	Yes		
<b>INSTALLATION SPECIFICATIONS</b>			
AC Output Conduit Size / Wire Cross Section	20 mm minimum / 4-16 mm <sup>2</sup>		
DC Input Conduit Size / Wire Cross Section	20 mm minimum / 6-35 mm <sup>2</sup>		
Dimensions with Safety Unit (HxWxD)	808 x 317 x 300		mm
Weight with Safety Unit	35		kg
Operating Temperature Range	-40 to +60 <sup>(4)</sup>		°C
Cooling	Fan (user replaceable)		
Noise	< 62		dB(A)
Protection Rating	IP65 - Outdoor and Indoor		
Mounting	Bracket Provided		

(1) Where permitted by local regulations

(2) Wi-Fi connectivity requires connection of an additional Wi-Fi component, ordered separately. For more details ask your SolarEdge sales person or refer to: <https://www.solaredge.com/aus/products/communication>

(3) For all standards refer to the Certifications category in the Resource Library: <http://www.solaredge.com/groups/support/downloads>

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