

## SolarEdge Three Phase Inverters for Residential Installations for Australia

SE5K - SE8K



## Specifically designed to work with power optimisers

- Noise level suitable for residential environment No external fan
- Superior efficiency (98%)
- 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



## **SolarEdge Three Phase Inverters for Residential Installations** for Australia

SE5K-SE8K(1)

	SE5K	SE7K	SE8K	
OUTPUT				
Rated AC Power Output	5000	7000	8000	VA
Maximum AC Power Output	5000	7000	8000	VA
AC Output Voltage - Line to Line / Line to		400 / 230		Vac
Neutral (Nominal)		400 / 230		VaC
AC Output Voltage -		104 264 5		\/
Line to Neutral Range		184 - 264.5		Vac
AC Frequency		50/60 ± 5		Hz
Maximum Continuous Output	0	11.5	13	A
Current (per Phase)	0		12	
Grids Supported - Three Phase		3 / N / PE (WYE with Neutral)		V
Utility Monitoring, Islanding Protection, Configura	able Power Factor,			
Country Configurable Thresholds		Yes		
NPUT				
Maximum DC Power (Module STC)	6750	9450	10800	W
Transformer-less, Ungrounded		Yes		
Maximum Input Voltage per Array		600		Vdc
Nominal DC Input Voltage per Array		400		Vdc
Maximum Input Current	8.5	12	13.5	Adc
Reverse-Polarity Protection		Yes		
Ground-Fault Isolation Detection		700kΩ Sensitivity		
Maximum Inverter Efficiency		,98		, %
European Weighted Efficiency	97.3	97.4	97.6	%
Nighttime Power Consumption		< 2.5		W
ADDITIONAL FEATURES				
Supported Communication Interfaces <sup>(2)</sup>	RS485, Ethernet, ZigBee (optional), Wi-Fi (optional), Cellular (optional)			
Smart Energy Management	Export Limitation, Home Energy Management			
STANDARD COMPLIANCE		15050400 45/41700400		
Safety	IEC62109, AS/NZS3100			
Grid Connection Standards	AS/NZS4777:2015			
Emissions	IEC61000-6-2, IEC61000-6-3 , IEC61000-3-11, IEC61000-3-12, FCC part15 class B			
RoHS	Yes			
INSTALLATION SPECIFICATIONS		res		
AC output conduit size / Wire cross section		20mm minimum / 3-13mm²		
DC input conduit size / Wire cross section	20mm minimum / 3-13mm <sup>2</sup>			
DC Input	Terminal blocks for	r 2 arrays enclosed through 2 separate	conduits (3)	
Dimensions with Safety Switch (H x W x D)		775 x 315 x 191	Conducts	mm
		24.7		
Weight Operating Temperature Range		-20 - +60 <sup>(4)</sup>		kg °C
Cooling		Internal fan		
Noise		< 40		dBA
Protection Rating		IP65 - Outdoor and Indoor		
Bracket Mounted (Bracket Provided)		11 03 Juluooi uliu iliuooi		

 $<sup>^{\</sup>rm (i)}$  These specifications apply to inverters with part number SExK-AU00Exxxx  $^{\rm (2)}$  Refer to Datasheets -> Communications category in Downloads page for

<sup>(</sup>a) For complete design guidelines refer to: https://www.solaredge.com/sites/default/files/se\_inverter\_installation\_guide\_e\_series\_addendum\_aus.pdf (b) For power de-rating information refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note.pdf



 $<sup>^{\</sup>rm [2]}$  Refer to Datasheets -> Communications category in Downloads page for specifications of optional communication options: http://www.solaredge.com/groups/support/downloads