



# SolarEdge Extended Power Three Phase Inverters

(Australia) SE10K - SE27.6K



INVERTERS

## Specifically designed to work with power optimisers

- 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 Extended Power Three Phase Inverters (Australia) SE10K - SE27.6K<sup>(1)</sup>

	SE10K <sup>(2)</sup>	SE12.5K	SE15K	SE16K	SE17K	SE25K	SE27.6K	
<b>OUTPUT</b>								
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							
<b>INPUT</b>								
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 <sup>(3)</sup>		
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
<b>ADDITIONAL FEATURES</b>								
Supported Communication Interfaces <sup>(4)</sup>	RS485, Ethernet, ZigBee (optional), Wi-Fi (optional), Cellular (optional)							
<b>DC SAFETY UNIT</b>								
2-pole Disconnection	1000V / 23A					1000V / 40A		
<b>STANDARD COMPLIANCE</b>								
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							
<b>INSTALLATION SPECIFICATIONS</b>								
AC output conduit size / Wire cross section	19mm minimum / 3-13 mm <sup>2</sup>							
DC input conduit size / Wire cross section	19mm minimum / 3-13 mm <sup>2</sup>							
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	-20 - +60 <sup>(5)</sup>							°C
Cooling	Internal Fan	Fan (user replaceable)						
Noise	< 40	< 50			< 55		dBA	
Protection Rating	IP65 - Outdoor and Indoor							
Bracket Mounted (Bracket Provided)								

<sup>(1)</sup> These specifications apply only to inverters with part numbers SExxK-AU000NNU2

<sup>(2)</sup> These specifications apply only to inverters with part number SE10K-AU002NNU2

<sup>(3)</sup> Where permitted by local regulations

<sup>(4)</sup> Refer to Datasheets -> Communications category in Downloads page for specifications of optional communication options: <http://www.solaredge.com/groups/support/downloads>

<sup>(5)</sup> For power de-rating information refer to: <https://www.solaredge.com/sites/default/files/se-temperature-derating-note.pdf>

