

## SOLAREGE THREE-PHASE INVERTER SE15K / SE27.6K



### Description

Solahart's range of panel optimised three-phase inverters are perfect for any large-scale commercial or industrial installation. Combined with SolarEdge DC Optimisers, this solution offers incredible design flexibility, maximising energy output and avoids traditional string inverter limitations.

Other key advantages of panel optimised inverters are improved safety and module level performance monitoring. Safety is enhanced during installation, maintenance and emergencies, while the online SolarEdge Portal monitors the performance of each individual module in real time.

### Key Features

- Maximum efficiency of 98%
- Fixed Inverter Voltage with DC Optimisers
- Integrated DC Safety Unit with switch
- Enclosure rated at IP65
- Internet connection through Ethernet and Wireless

### Key Benefits

- More power generated from the system
- Independent, panel level management and monitoring
- Better safety and reduced DC wiring of entire system
- Suitable for outdoor and indoor installation
- Monitor system level performance at a panel level

Technical data	SE15K	SE27.6K
<b>Output AC (Load/Grid)</b>		
Rated AC Power Output	15000 VA	27600 VA
Max AC Power Output	15000 VA	27600 VA
AC Output Voltage (Nominal), L-N	400 / 230 Vac	
AC Output Voltage Range, L-N	184 - 264.5 Vac	
AC Frequency	50/60 ± 5 Hz	
Maximum Continuous Output Current	23 A	40 A
Residual Current Detector / Residual Current Step Detector	300 / 30 mA	
Grids Supported – Three Phase	3 / N / PE (WYE with Neutral); 230/400	
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes	
<b>Input DC (PV)</b>		
Maximum DC Power (Module STC)	18750 W	37250 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 Vdc	
Maximum Input Voltage DC+ to DC-	830 Vdc	
Max Input Current	22 Adc	40 Vdc
Reverse-Polarity Protection	Yes	
Ground-Fault Isolation Detection	700kΩ Sensitivity	
Maximum Inverter Efficiency	98%	98.3%
European Weighted Efficiency	97.6%	98%
Nighttime Power Consumption	<2.5 W	<4 W
<b>DC Safety Unit</b>		
2-pole Disconnection	1000V / 23A	
DC Fuses on Plus & Minus	N/A	20A
<b>Installation Specification</b>		
AC Output conduit size	19.05mm minimum	
DC Input conduit size	19.05mm minimum	
Dimensions with Safety Unit (HxWxD)	775mm x 315mm x 260mm	
Weight with Safety Unit	36.2 kg	48 kg
Cooling	Natural convection and internal fan	
Noise	<50 dBA	<55 dBA
Min - Max Operating Temperature	-20°C to +60°C (Power derating above 50°C)	
Protection Rating	IP65	
<b>Standard Compliance</b>		
Safety	IEC-62103 (EN50178), IEC-62109, AS-3100	
Grid Connection Standards	VDE-AR-N-4105, G59/3, AS-4777, EN 50438, CEI-021, VDE 01261-1-1, CEI016 <sup>[1]</sup> , BDEW	
Emissions	IEC61000-6-2, IEC61000-6-3; IEC61000-3-11; IEC61000-3-12	
RoHS	Yes	
<b>Features</b>		
Supported Communication Interfaces	RS485, Ethernet, ZigBee (optional), Wi-Fi (optional), Built-in GSM (optional)	98.3% / 98.1%
Warranty	10 years*	

<sup>[1]</sup> For SE27.6K Only

\*For full details see Solahart owners Guide & Installation Instructions

Specifications and designs included in this datasheet are subject to change without notice.

Solahart Australia Tel: 1300 769 475 • www.solahart.com.au

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