

# SOLAREGE THREE-PHASE INVERTERS

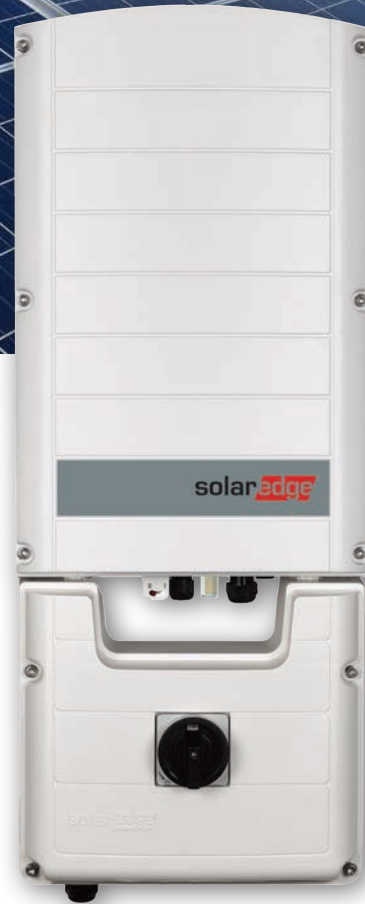
SE15K & SE30K

Solahart's range of panel optimised three-phase inverters are perfect for any large-scale commercial or industrial installation.

The SolarEdge PV inverter combines digital control technology with efficient power conversion to achieve superior solar power harvesting and best-in-class reliability. The fixed-voltage technology ensures the solar inverter is always working at its optimal input voltage, regardless of the number of panels in a string or environmental conditions.

Combined with SolarEdge DC Power Optimisers, this solution offers superior design flexibility, maximising energy output and avoids traditional string inverter limitations.

Safety is enhanced during installation, maintenance and emergencies, while the online SolarEdge Portal monitors the performance of each individual panel.



**solar**edge



**SUITABLE FOR  
COMMERCIAL  
APPLICATIONS**

## HOW YOU BENEFIT



### HIGH EFFICIENCY

Maximum efficiency of up to 98.3%, generating more power from your PV system.



### FLEXIBLE DESIGN

Individual panel monitoring and management allows flexible designs and increased power production.



### SAFE OPERATION

Integrated DC Safety Unit Switch for better safety and reduced DC wiring of the entire system.



### INNOVATIVE

Internet connection through ethernet and wireless communication to monitor system's performance.



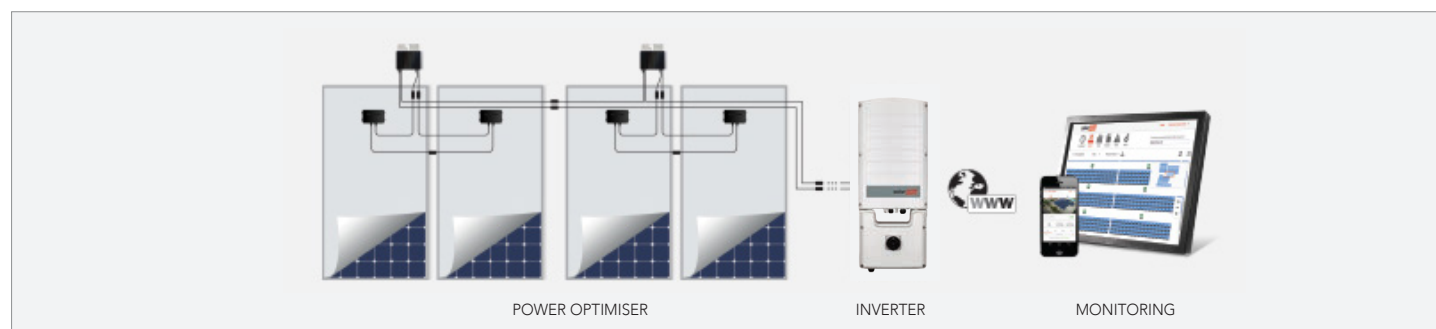
### SOLAHART WARRANTY

Enjoy a 12-year warranty, for peace of mind.\*

# Technical Data

MODELS	SE15K INVERTER	SE30K INVERTER
<b>Output AC (Load/Grid)</b>		
Rated AC power output	15000 W	30000 W
Maximum AC power output	15000 VA	30000 VA
AC output voltage (nominal), L - N	400 / 230 Vac	
AC output voltage range, L - N	184 - 264.5 Vac	
AC frequency	50 ± 5 Hz	
Maximum continuous output current (per phase)	23 A	43.5 A
Grids supported - Three phase	3 / N / PE (WYE with neutral); 230 / 400 V	
Utility monitoring, islanding protection, country configurable thresholds, configurable power factors	Yes	
<b>Input DC (PV)</b>		
Maximum DC power (module STC)	20250 W	45000 W
Transformerless, ungrounded	Yes	
Maximum input voltage DC to Gnd	415 Vdc	
Nominal DC input voltage DC to Gnd	375 Vdc	
Maximum input voltage DC+ to DC-	830 Vdc	
Nominal DC input voltage DC+ to DC-	750 Vdc	
Maximum input current	22 Adc	43.5 Adc
Reverse-polarity protection	Yes	
Ground-fault isolation detection	700 kΩ Sensitivity	150 kΩ Sensitivity <sup>(1)</sup>
Maximum inverter efficiency	98%	98.3%
European weighted efficiency	97.6%	98%
Night time power consumption	<2.5 W	<4 W
<b>Additional Features</b>		
Supported communication interfaces	RS485, Ethernet, Wi-Fi (Built-in, requires antenna <sup>(2)</sup> )	
<b>DC Safety Unit</b>		
2-pole disconnection	1000 V / 23 A	1000 V / 55 A
<b>Installation Specification</b>		
AC output conduit size	19 mm minimum	20 mm minimum
DC input conduit size	19 mm minimum	20 mm minimum
Dimensions with safety unit (H x W x D)	775 x 315 x 260 mm	808 x 317 x 300 mm
Weight with safety unit	33.7 kg	35 kg
Cooling	Fan (user replaceable)	
Noise	<50 dBA	<62 dBA
Minimum - maximum operating temperature	-40°C to + 60°C (power derating above 50°C)	
Protection rating	IP65 - Outdoor and indoor	
<b>Standard Compliance</b>		
Safety	IEC-62109, AS/NZS3100	
Grid connection standards	AS/NZS4777:2015	
Emissions	IEC 61000-6-2, IEC 61000-6-3, IEC 61000-3-11, IEC 61000-3-12	
RoHS	Yes	
<b>Product Details</b>		
SolarEdge part number	SE15K	SE30K
Solahart Warranty	12 years*	

<sup>(1)</sup> Where permitted by local regulations. <sup>(2)</sup> Wi Fi connectivity requires an external antenna. \*For full details see Solahart Owner's Guide & Installation Instructions. 5 year warranty applies to RS485 Expansion Kit, SolarEdge Meter and Wireless Communication products excluding GSM Cellular Modem.



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

Solahart Australia 1300 769 475 | www.solahart.com.au

Reorder code: SHDS/INVSE15K-30K

IH0113\_SE15K & 30K\_Three Phase\_Inverter\_Oct 2020