

INSTANT SOLAR



SC3KW

Product that provides you drive your electric car “on sunshine”.

Instant Solar SOLCAR is a product that provides your electric vehicle with free solar electricity. Designed for company’s business use and their customers. Charges an electric vehicle in business environments where users will park in them while taking a meeting or having lunch while their car is charging in the shade of solar panels. As a hybrid solution it can store unused energy in the battery storage for night time use. With this solution you can be your own electricity provider for electric vehicles. Designed and fabricated in Ireland by Instant Solar it is dimensioned to sit comfortably inside a standard parking space and provide a shade for your vehicle. The 3 kW Solar Array generates approximately 18 kWh per day which is stored and ready for use in the LiFePO4 battery energy storage inside the station.

The electricity provided to the EV’s is 100% renewable, clean and solar powered.

In case of bad weather energy will be redirected from your grid supply to your car.

- The design is based on MPPT (Maximum Power Point Tracking).
- Power generation is audited through specially designed software.
- Digital and graphical representation of parameters.
- Pure sine wave output with low total harmonic distortion (THD).
- Deep discharge battery protection and control.



Technical Data

INSTANT SOLAR SOLCAR SC3KW	
Input	
PV Array Wattage	3000 W - 4500 W
Max MPPT DC Voltage	500 VDC
Startup Feeding DC Voltage	116 / 150 V
Max Input Current	18 A
MPPT Tracker	1
Input AC Voltage Range	170 – 280 V
Output(AC)	
Nominal AC Voltage	208 / 220 /230 / 240 V
Output Voltage Range	184 – 265 V
Output Frequency (GRID - TIE)	47.5 -51.5 Hz / 59.3 – 60.5 Hz
Output frequency (OFF - GRID)	50 / 60 Hz, Auto sensing
Output Waveform	Pure Sine Wave
Continuous Output	3000 W
Max Output Power (via grid relay)	5100 W
Max Output Power (battery mode)	3000 W
Power Factor	< 1
THD	< 3 %
AC connection	Single phase
Battery energy storage	
Nominal Battery Voltage	48 VDC
Battery Voltage Range	42 – 56 VDC
Max Charge from Grid	30 A
General Data	
Max Efficiency	> 93 %
MPPT Efficiency	> 96 %
Protection	<ul style="list-style-type: none"> • AC short-circuit, Output Over load • Ground fault monitoring, Anti - islanding • Output Transient Voltage Suppression
Consumption (night)	< 2 W
Cooling Concept	Fan
Enclosure Type	IP 20
Operating Temperature	0°C ~ 40°C
Operating Humidity	0 - 90 % RH (No condensing)
Weight / Dimension	16kg / 420 x 415 x 170 mm
Interfaces	RS 232 / USB
Monitoring and control software	Included
Certification	EN62109-1, EN62109-2, EN62040-1/CE, VDE4105,VDE0126-1-1, AS4777/3100
Warranty	2 years



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The Sky's the limit