



SC02, SC03, SC04, SC05 & SC06 Solar Scaffold & Hoarding Light System

A complete, stand-alone, self-contained, solar powered LED lighting system designed specifically for scaffolding and hoardings.

Our bespoke, SC-series lighting systems are designed, engineered and built in our own facility. They are unique, exclusive and only available from Solar Illuminations. Obtaining or installing mains power at a construction site can be difficult, expensive, time consuming or near impossible. Using a professional, commercial grade, solar lighting system that has been designed with these issues in mind just makes sense. This system is supplied complete and is quick and easy to install. With no mains connection required, it doesn't even require the services of an electrician.

Our systems operate at a safe, low-voltage, 12V or 24V DC and are therefore ideal for building sites and areas under construction or redevelopment. Ideal for temporary installations and can be easily removed, reconfigured if necessary, and simply relocated from one job site to another. These systems are supplied complete with all of the necessary components required for a typical installation. Each system can be supplied with a quantity of 1 to 20 LED light fittings with either a red or clear/white polycarbonate lampshade. Typically designed for automatic dusk to dawn illumination all year round which can be as much as 16.5 hours in the UK mid-winter. The size (wattage) of the solar panel and the size (capacity) of the battery is determined by the quantity of lamps (total LED power).



One Year*
Warranty ✓

Low Price
Guarantee ✓

No Quibble*
Returns ✓

UK & Ireland
Shipping ✓

Lifetime*
Tech Support ✓

11-12 Old Bond Street • Mayfair • London • W1S 4PN • Telephone: 020 7873 2262
MONDAY - FRIDAY 9:00AM - 9:00PM (UK TIME)

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Solar Makes Sense

Using a solar lighting system is often **cheaper than trenching** cables to remote sites or through car parks, under roads, driveways, and footpaths, etc.



No monthly bills for electric usage, meter fees, or taxes.

Renewable energy. Use the sun's unlimited power as a clean source of renewable energy.



Green Image. Let people know your company or organization is doing its part in reducing its reliance on unclean energy.

Built to suit. Our systems are supplied with the necessary equipment based on the application requirements, allowing for reliable performance all year-round.

Purchase with Confidence



Established in 2002 with many years of solar industry experience. We're the experts in providing the right product for the job.



We stand behind our systems, including a 20 year limited warranty on the solar panels supplied with our systems.



We use the highest quality components to assemble systems that are long lasting and reliable.



Technical support is available for life! We'll be here to assist you with support and troubleshooting if the need arises.

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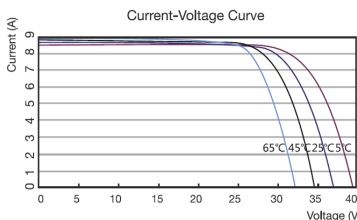
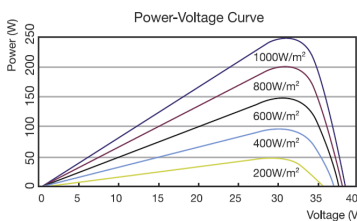
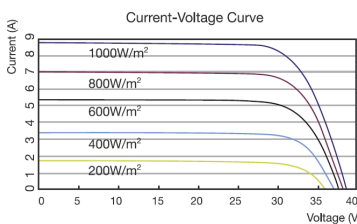
20
YEAR
GUARANTEE

Solar Panel

Our systems are supplied with high quality solar panels that produce the highest performance and efficiency. Designed to endure the harshest of environments and are guaranteed to power for well over 20 years. These solar panels will withstand the test of time. Typically manufactured in the USA, Canada, or Germany. The solar panel size and wattage required depends on the installation location, operating hours, and the specifications of the lighting system. Please consult our engineers for specific solar power recommendations.

Photovoltaic Module

- Highly efficient monocrystalline or polycrystalline solar panel with aluminium frame, anti-aging, and encapsulated membrane.
- Standard and bi-facial version available for increased performance.
- Anti-reflective and anti-soiling surface reduces power losses from dirt and dust.
- Certified to withstand high wind loads (340PSI) and snow loads (780PSI); and resistance to high salt and ammonia.
- Manufactured to international standards, verified and certified by independent testing laboratories. (UL, ETL, IEC, MCS, TUV, etc.)
- Assembled to strict quality control standards; international standards ISO 9001 and ISO 14001.
- The solar panel size and power required depends greatly on the installation location and customer's requirements, please consult our engineers for specific solar power requirements.
- Range of solar panel power available from 45W to 585W.
- Solar panels can be supplied in a single or dual format (2 x 70W = 140W, 2 x 100W = 200W etc.)
- Typical solar panel life is approximately 25-30 years, subject to environmental factors.



Common Solar Panel Dimensions

- 100 Watts: approx. 770 x 670 x 30 mm
- 150 Watts: approx. 1,120 x 670 x 30 mm
- 200 Watts: approx. 1,480 x 870 x 30 mm
- 250 Watts: approx. 1,630 x 770 x 35 mm
- 300 Watts: approx. 1,650 x 880 x 35 mm
- 400 Watts: approx. 1,722 x 1,134 x 30 mm



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Batteries



“We supply batteries that are engineered and tested to provide reliable, long-lasting power for photovoltaic (PV) and renewable energy applications where frequent deep cycles are required and minimum maintenance is desirable.”



Battery

- Supplied with a 12V deep cycle AGM battery.
- High quality, brand name, e.g. Xplorer, Lucas, Yuasa, Leoch, etc.
- GEL or lithium batteries are available as an option.
- Battery capacity ranges from 30 AH up to 300 AH (at 20 HR Rate) subject to model selected and customer operation requirements.
- Most common battery capacities are 22Ah, 34Ah, 55Ah, 85Ah, 100Ah, 200Ah & 250Ah.
- Typical maximum daily DOD designed around 30%.
- Non-spillable (defined by DOT, ICAO and IATA), valve regulated, NonHAZMAT.

VRLA Technology

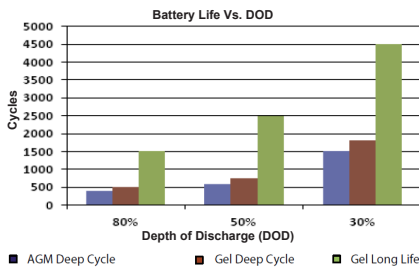
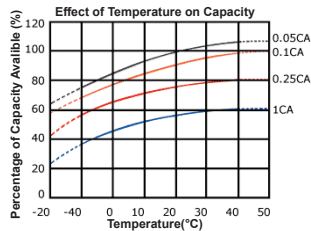
VRLA batteries are maintenance free for life. VRLA stands for Valve Regulated Lead Acid, which means the batteries are sealed. Gas will escape through the safety valves only in case of overcharging or cell failure.

Our AGM and Gel batteries have exceptional discharge recovery, even after deep or prolonged discharge. However, it should be noted that repetitive deep discharge and prolonged deep discharge have a negative influence on the service life of all lead acid batteries.

Gel batteries in general have a longer service life and better cycle capacity than AGM batteries.

Please Note: The rated capacity of our AGM or Gel Deep Cycle batteries refers to 20 hour discharge rate (i.e. 0.05CA). Most products actually operate near or at a 100 hour discharge rate (i.e. 0.01CA) and thus actual available battery capacity is slightly higher than the advertised rate.

The total available battery power is measured in watt-hour (Wh) or V*Ah. When comparing our total battery capacity with other systems, please note that the battery capacity from a 12V system is not interchangeable with the battery capacity of a 24V system. However, the total battery power (i.e. watt-hours) is always comparable provided the correct system voltage is considered during calculation.



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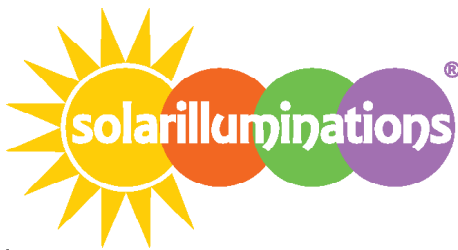
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Charge Controllers



Charge controllers available from 10A to 100A, capable of handling array voltages up to 250VDC, and battery bank voltages from 12V to 48V.



Maximum Power Point Tracking

Supplied standard with the most advanced and sophisticated MPPT charge controller technology. Allowing for full system programmability and load control; with intelligent battery management. MPPT technology increases power generation by up to 30% during inclement periods, and intelligent battery management provides extended battery life and extra protection against excessive discharge.



*Real time data monitoring, 30 day performance history, and user programmability from Apple or Android smartphones.

Load Control

The comprehensive load control system allows for extensive configuration, including dynamic activation and on some models optional dimming for some lighting. Load activation is controlled by the charge controller and solar panel.

Load Control Relay



For high current load control applications, our full programmable load control relays can handle up to a maximum of 220A.

MPPT Control Module

- The MPPT controller offers full programmability of load output: dusk to dawn, multi-timed mode, and programmable low voltage disconnect.
- For high current loads the charge controller can activate and deactivate solid state relays based on internal programming to control DC power delivery and/or AC power delivery to loads.
- Intelligent battery management software is used to protect the battery from being excessively discharged. The controller will monitor the state of charge on the battery, and if needed, day by day slightly increase the load disconnect level (i. e. disconnect the load earlier) until the harvested solar energy is sufficient to recharge the battery to nearly the full 100% at least once a week. Allowing for the longest life possible from the batteries.
- Controller size and ratings are subject to solar panel and battery specifications.
- *All models support real time data monitoring, 30 day performance history, and user programmability from Apple or Android smartphones, tablets, etc. On some models use of this feature requires the optional MPPT Bluetooth Dongle.



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Battery Enclosures

We offer several types of battery enclosures, ranging from various sizes and construction materials. The type of battery enclosure depends on the size of the battery required, and/or how the battery enclosure needs to be mounted. All battery enclosures are weather rated, lockable and designed for interior or exterior installation.



BE01 Battery Enclosure

- Plastic construction.
- Supplied with sockets or cable glands dependent on system requirements.
- Hinged lockable lid (padlock not included).
- Dimensions: 310mm x 225mm x 165mm

BE02 Battery Enclosure

- Galvanized steel construction.
- Fitted with 4 sockets, and one solar panel input.
- Hinged lockable lid (padlock not included).
- Dimensions: 330mm x 250mm x 225mm

BE03 Battery Enclosure

- Galvanized steel construction.
- Fitted with 8 sockets, and one solar panel input.
- Hinged lockable lid (padlock not included).
- Dimensions: 460mm x 365mm x 284mm

BE04 Battery Enclosure

- Galvanized steel construction.
- Knock-out holes on the bottom and side of enclosure.
- Hinged lockable door (padlock not included).
- Pole mount option.
- Dimensions: 250mm x 420mm x 610mm

BE05 Battery Enclosure

- Galvanized steel construction.
- Hinged lockable door (padlock not included).
- Cable entry hole on the back of the enclosure.
- Dimensions: 521mm x 345mm x 838mm

BE08 Battery Enclosure

- Galvanized steel construction.
- Knock-out holes on the bottom and side of enclosure.
- Hinged lockable door (padlock not included).
- Pole mount option.
- Dimensions: 423mm x 327mm x 318mm

Custom Battery Enclosures - Special Order Item

- Aluminium / stainless steel construction.
- Knock-out holes / glands on the enclosure.
- Hinged lockable door (padlock not included).
- Dimensions: Vary depending on battery requirements.

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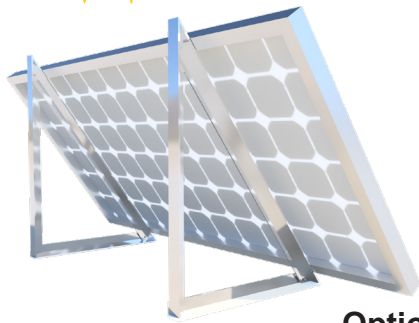
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Each solar panel is supplied with a pair of metal mounting triangles. These triangles allow the installer to mount the solar panel at an appropriate angle to a solid vertical or horizontal surface (such as a wall or concrete pad).

The panels can be installed in numerous ways, but note that the solar must be mounted at an appropriate angle (15° plus site latitude), face as south as possible with no shade or part shade.

Optional Battery Enclosure Mounting Hardware

If you need to mount the lockable battery enclosure to a round post or column, you can purchase our optional battery enclosure column mount hardware kits.



SP13

The SP13 battery enclosure column mount kit can be used to mount our BE02, or BE03 to a round column or post. Column diameter options vary between 50mm to 203mm diameter.



Optional Mounting Hardware For Light Fittings

If you need to attach the light fixture(s) to a round pole or scaffold pole, below are some of the hardware options that can be purchased as an optional extra.



Optional Solar Panel Mounting Hardware

Below are solar panel column mount options that can be purchased as an optional extra.

SP11

Can accommodate panels up to 990mm wide.



SP12

Can accommodate one or two panels, up to 990mm wide each.



SP04 / SP08

SP04 can accommodate panels up to 508mm wide. SP08 can accommodate panels up to 152mm wide.



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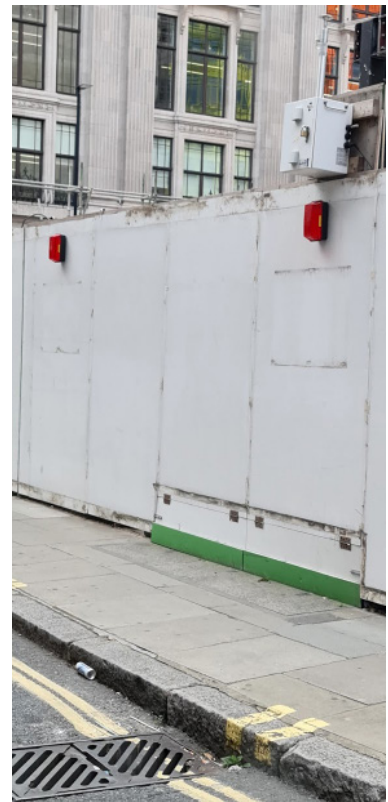
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