

## 01. Low Energy Lighting

We are now offering the latest generation of Suntech Solar compact fluorescent light bulbs (CFLs) and LED lighting which can help you reduce your energy usage and therefore carbon emissions. These new super bright micro-CFL and LED bulbs are offered in a wide range of standard fittings (GLS, GU10, E14, E27 and B22 (large and small)). We also supply two energy-efficient alternatives to the quartz halogen bulb. The halogen is the most energy-wasting and heat-producing bulb ever produced. By replacing these bulbs you will not only reduce energy costs but will lower heat outputs and replacement costs.

### Candle-style Light Bulbs

<b>Reference</b>	HLG-8
<b>Colour temperature</b>	2700k - 6400k
<b>Wattage available</b>	7W
<b>Length of bulb</b>	120mm
<b>Diameter of bulb</b>	42mm
<b>Voltage</b>	220v – 110v
<b>Lamp base</b>	Small screw thread (E14); Bayonet (B22)
<b>Lifetime</b>	8,000 hours
<b>Bulbs per pack</b>	2



### Ping Pong Light Bulbs

<b>Reference</b>	HLG-10
<b>Colour temperature</b>	2700k - 6400k
<b>Wattage available</b>	7W
<b>Length of bulb</b>	88mm
<b>Diameter of bulb</b>	50mm
<b>Voltage</b>	220 v – 110v
<b>Lamp base</b>	Screw thread (E27); Bayonet (B22)
<b>Lifetime</b>	8,000 hours
<b>Bulbs per pack</b>	3



### Standard Style Light Bulbs

<b>Reference</b>	HLG-5
<b>Colour temperature</b>	2700k – 6400k
<b>Wattage available</b>	11W
<b>Length of bulb</b>	145mm
<b>Diameter of bulb</b>	65mm
<b>Voltage</b>	220v – 110v
<b>Lamp base</b>	Screw thread (E27); Bayonet (B22)
<b>Lifetime</b>	8,000 hours
<b>Bulbs per pack</b>	2



**Gorgeous Spiral Light Bulbs**

<b>Reference</b>	GO13W/60LM
<b>Colour</b>	Daylight
<b>Wattage available</b>	13W
<b>Lamp base</b>	Small screw thread (E14); Bayonet (B22)
<b>Bulbs per pack</b>	1



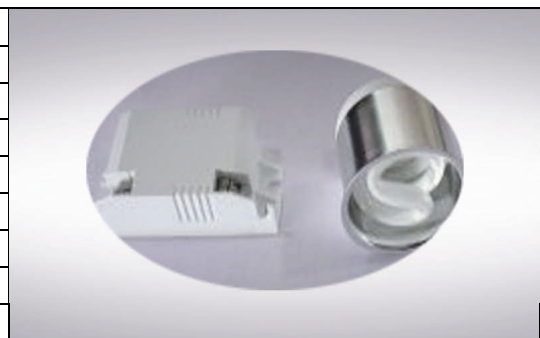
**CFL Spotlights – The Low Energy Alternative to Halogen Bulbs**

<b>Reference</b>	HLN-1
<b>Colour temperature</b>	2700k - 6400k
<b>Wattage available</b>	7W – 11W
<b>Length of bulb</b>	70mm
<b>Diameter of bulb</b>	50mm
<b>Voltage</b>	220 v – 110v
<b>Lamp base</b>	Twist & lock (GU10)
<b>Lifetime</b>	8,000 hours
<b>Bulbs per pack</b>	3



**CFL Spotlights – The Low Energy Alternative to Halogen Bulbs**

<b>Reference</b>	HLN-2
<b>Colour temperature</b>	2700k – 6400k
<b>Wattage available</b>	7W – 11W
<b>Length of bulb</b>	45mm
<b>Diameter of bulb</b>	50mm
<b>Voltage</b>	220v – 110v
<b>Lamp base</b>	GU5.3
<b>Lifetime</b>	8,000 hours
<b>Bulbs per pack</b>	1




**Low Energy Lighting DC & AC**

We also offer a wide range of DC bulbs in CFL, cathode and LED formats with outputs of up to 20 Watts (equivalent to an 80 Watt incandescent). Using this type of low energy bulb provides homeowners with the opportunity to invest in a standalone solar powered lighting system via battery storage. For individual lighting effects, table and floor-standing AC lighting could be used to compliment the DC lighting powered by our latest photovoltaic lighting system.




### Lighting for Industrial Buildings

<p>For industry, we offer a range of CFL bulbs and reflectors from 30-70 Watt inputs (equivalent to up to 200 Watts when compared to incandescent light bulbs) with up to 8,000 hours of life. Custom branded bulbs are also available – contact <a href="mailto:erh@solar.org.uk">erh@solar.org.uk</a> for details.</p>	
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## 02. Solar Street & Parameter Lighting

Increasingly, renewable energy alternatives from solar thermal collectors to underfloor heating are being specified in building projects. For architects and builders wishing to incorporate solar street and parameter lighting in a development, Jayhawk are able to source a range of stylish solutions to add elegance to outdoor areas.

### Solar Street Lighting


Reference	A104550	
Available finishes	White, black, verde, rust, brown	
Fixture height	Approx. 3.3m	
Solar cell type	Poly / mono crystalline	
Wattage of solar panel	85W	
Light source type	117pcs LED	
Light source colour	White	
Pole material	Aluminium & steel	
Battery type	1pc, 12V 100Ah deep cycle lead acid	

### Further Models


We are able to supply other models to order. Please telephone Jayhawk Solar Ltd for further details or alternatively e-mail [erh@solar.org.uk](mailto:erh@solar.org.uk).

## 03. Solar Garden Lights


### Solar Stake Garden Lights

<b>Reference</b>	1011TSL-3	
<b>Features</b>	<ul style="list-style-type: none"> <li>▪ Each spotlight features two super bright white LEDs</li> <li>▪ Adjustable heads for light direction</li> <li>▪ Adjustable solar panel</li> <li>▪ Up to 8 hours illumination with full charge</li> <li>▪ Height: approx. 32cm</li> </ul>	


**Solar Camping Light**

<b>Reference</b>	1011SL	
<b>Features</b>	<ul style="list-style-type: none"> <li>▪ Super bright white LEDs</li> <li>▪ On/off switch</li> <li>▪ Adjustable solar panel</li> <li>▪ Outdoor charging for indoor use</li> </ul>	

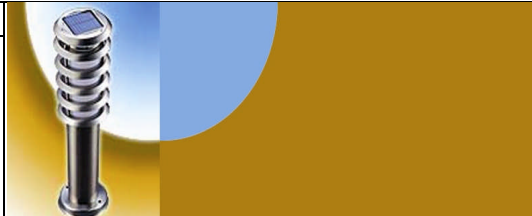
**Solar Garden Light**

<b>Reference</b>	1011B-2	
<b>Features</b>	<ul style="list-style-type: none"> <li>▪ Light source – super bright white LED</li> <li>▪ Up to 10 hours of light at night</li> <li>▪ Height: approx. 69cm (adjustable)</li> </ul>	


**Single Solar Stake Spotlight**

<b>Reference</b>	1011TSL	
<b>Features</b>	<ul style="list-style-type: none"> <li>▪ Two bright white LEDs</li> <li>▪ Adjustable solar panel</li> <li>▪ Up to 8 hours illumination with full charge</li> <li>▪ On/off switch</li> <li>▪ Height: approx. 35cm</li> </ul>	


**Stylish Solar Decking Light (for ground mounting)**

<b>Reference</b>	1011SSL2	
<b>Description</b>	<ul style="list-style-type: none"> <li>▪ Modern styling in stainless steel</li> <li>▪ Light source – super bright LEDs</li> <li>▪ Up to 8 hrs light at night</li> <li>▪ Height: approx. 47.5cm</li> </ul>	

**Large Stylish Solar Decking Light (for ground mounting)**

<b>Reference</b>	1011SSL1	
<b>Description</b>	<ul style="list-style-type: none"> <li>▪ Modern styling in stainless steel</li> <li>▪ Light source – super bright LEDs</li> <li>▪ Up to 8 hrs light at night</li> <li>▪ Height: approx. 51cm</li> </ul>	

**Aluminium Garden Light**

<b>Description</b>	<ul style="list-style-type: none"> <li>▪ Available in four colours: black, silver, pink or blue (limited stocks of certain colours)</li> <li>▪ On/off switch</li> <li>▪ Height approx. 41cm</li> </ul>	
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## 04. Suntech Solar Photovoltaic Panels (for generating electricity)

Photovoltaic (PV) solar panels are used to supply electricity. PV panels convert sunlight into DC power at 12 volts but can be installed in large arrays to provide systems of up to 48 volts where required. PV panels are now supplied in many formats from flexible laminated thin film to PV cells integrated into windows. The most common format is as aluminium-framed panels. Panels are available in outputs of 5W to 280W and even higher.

PV panels can be wired up for DC-lighting and DC appliances using a 12-24 volt deep cycle battery storage system.



### Types available

1. New laminated panel for rural lighting systems from 5-20 Watts;
2. New black-coated aluminium framed mono and polycrystalline panels for larger power supply systems.

## 05. Windtech Micro Wind Turbines

After many years of testing micro wind turbines as part of hybrid power generating systems, we now offer two models: the Windtech 400W and the Windtech 600W. The 400 Watt turbine has been tested in Cornwall by the University of Exeter, UK.



The 400 and 600 Watt 3-phase turbines are each supplied with a controller converting the electricity generated into 12 or 24 volt DC, for battery storage. It is essential to understand fully the correct heights to mount wind turbines and where to place them before entering into this sector. For those looking for larger kW output turbines and vertical axis types, please contact us on [erh@solar.org.uk](mailto:erh@solar.org.uk).

## 06. Suntech Solar PV Controllers, Inverters & Batteries

PV panels and/or wind turbines, require other components to ensure that the system is safe and is able to provide long service.

### PV Solar DC Controllers

We supply a range of DC solar controllers which balance out the voltage delivered into the batteries from the solar PV panels. The charger controllers offered are from 5 amp to 20 amp and each one has a direct DC power connection for lighting. These are supplied with a 2-year guarantee.



### Deep Cycle Gel Lead Acid Batteries at 5Ah

We have selected a high quality range of gel deep cycle and VRL batteries to provide the power storage for both small scale DC lighting systems and larger-scale systems where many large batteries could be required when standalone systems are specified.



### Modified & Pure Sine Wave Inverters (UK plug/sockets)

To convert DC to AC, an inverter - modified or pure sine wave - is required. These are sourced from a well-established manufacturer. Inverters are offered in sizes from 500W to 3kW.

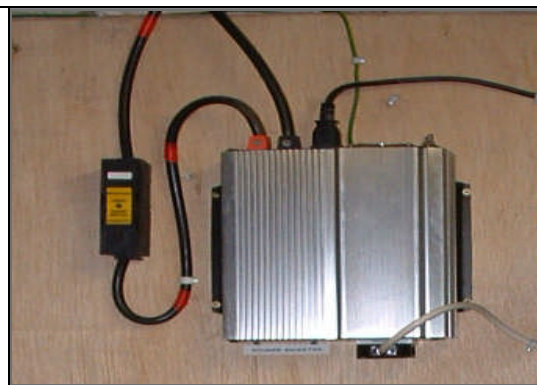
Outside these key components, it is also necessary to purchase correctly sized cables, disconnect fuses and amp/Watt meters.



## 07. Inverter Charger

Inverter chargers are also supplied as part of UPS systems offering a backup during power shortages. Should the grid power system fail, these inverters (wired up to a maintenance-free battery storage bank) will provide instant power.

An ideal circumstance where they might be used is where a circulating pump is required to work 24 hours per day. This inverter would automatically switch over from mains 220 volts to a 12 volt battery bank converted to 220 volts. Once the mains 220 volt power is returned the charge section of the unit would re-charge the battery back up ready for next power cut. **Available in 500-1,000W and 1.5kW.**



Jayhawk International Ltd also supply Solar hot water systems; a range of plumbing and heating products and solar gadgets. Please contact us for catalogues.