# GLOWSTAR TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th>G9W</th>
<th>G12W</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Input Voltage</strong></td>
<td>85 to 300V AC</td>
<td>85 to 300V AC</td>
</tr>
<tr>
<td><strong>Nominal voltage</strong></td>
<td>12V</td>
<td>12V</td>
</tr>
<tr>
<td><strong>Max. open circuit voltage</strong></td>
<td>24V</td>
<td>24V</td>
</tr>
<tr>
<td><strong>Max. Peak Power</strong></td>
<td>20Wp</td>
<td>30Wp</td>
</tr>
<tr>
<td><strong>Optimum Voltage (Vspec)</strong></td>
<td>14 to 17V</td>
<td>14 to 17V</td>
</tr>
<tr>
<td><strong>Max charge current</strong></td>
<td>1.2A (20W)</td>
<td>1.8A (30W)</td>
</tr>
<tr>
<td><strong>Auto function</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Accessory output</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>12V OUTPUT CABLE</strong></td>
<td>GS7 only</td>
<td>GS7 only</td>
</tr>
<tr>
<td><strong>Vehicle charge cable</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>DC output adaptor</strong></td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Polarity in centre contact is positive.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Cable J connector fitted with 2.1mm DC plug.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Mechanical</strong></td>
<td>Robust, strong and suitable for portability.</td>
<td></td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Amorphous, poly or Mono-crystalline.</td>
<td></td>
</tr>
<tr>
<td><strong>Glowstar GS5 &amp; the Glowstar GS7 are not intended for using on a vehicle. Therefore at least one of the items must be ordered separately so that the Glowstar's battery can be charged.</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Lamp Life (any wattage) 10,000 hours

#### LAMP AND EQUIVALENT OUTPUTS

<table>
<thead>
<tr>
<th></th>
<th>G9W</th>
<th>G12W</th>
</tr>
</thead>
<tbody>
<tr>
<td>** Voltage 85 to 300V AC**</td>
<td>12V</td>
<td>12V</td>
</tr>
<tr>
<td><strong>Current output limited to 500mA.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Max charge current</strong></td>
<td>1.2A (20W)</td>
<td>1.8A (30W)</td>
</tr>
<tr>
<td><strong>Full charge 5.2 hours</strong></td>
<td>6.2 hours</td>
<td>6.2 hours</td>
</tr>
<tr>
<td><strong>9W (60W GLS) 2.9 hours</strong></td>
<td>4.8 hours</td>
<td>6.2 hours</td>
</tr>
<tr>
<td><strong>7W (40W GLS) 3.7 hours</strong></td>
<td>6.2 hours</td>
<td>6.2 hours</td>
</tr>
<tr>
<td><strong>5W (25W GLS) 5.2 hours</strong></td>
<td>8.5 hours</td>
<td>6.2 hours</td>
</tr>
<tr>
<td><strong>CHARGE FROM MAINS</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>CHARGE FROM VEHICLE</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>CHARGE FROM SOLAR PANEL</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

## Accessories Available

- **Solar panel**
- **USB cable**
- **Solar charger**
- **Vehicle charger**

## Solar Modules

- You can use your own solar module provided it meets the following specification:
  - Optimum Voltage (Vspec): 14 to 17V
  - Max. Peak Power: 20Wp
  - Nominal voltage: 12V
  - Max. open circuit voltage: 24V

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**GLOWSTAR FEATURES**

- **True zero power consumption when turned off**
- **High reliability**
- **10 minute shutdown warning**
- **HF light inverter technology**
- **Well protected electronics, electrically and mechanically**
- **Highly efficient inverter and control circuits**
- **Attractive packaging**
- **High reliability**
- **No glass covers to break**
- **Sealed, high reliability switches**

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**Specifications are subject to change without prior notice.**

**Stock number: 00020208**

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**The Glowstar GS7 can use a 5, 7 or 9W solar module. The Glowstar GS5 can use a 5W solar module. Both Glowstar models can use a mains charger.**

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**SOLLATEK SOLAR SYSTEMS**

GLOWSTAR IS EXCLUSIVELY MANUFACTURED BY SOLLATEK. A REVOLUTION IN SOLAR ENERGY

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**Revision No. 4.0  Feb 08**

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**A Revolution in Lighting**

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**THE SOLLA T Ek**

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**A Revolution in Lighting**
Until now... because Sollatek’s Glowstar Lantern (electricity) and other solar home systems. However, voltaics (which convert the sun’s energy into sunlight, there has been growing interest in photo-

A truly bright light for hundreds of applications

Glowstar is ideal – and often indispensable for:

• Medical work
• Emergency operation and child delivery
• Outdoor work
• Site inspection
• Use by security staff

A wide range of recreational activities, such as camping

Power for appliances
Glowstar GS7 features an auxiliary DC power output. It can be used to power a radio or small appliance.

Long-life lighting
A fluorescent tube is an equivalent of a 60-watt incandescent bulb. Thus, Glowstar’s compact fluorescent tubes last much longer, emit less heat and suffer a greater life of power design, this inverter has been successfully used for solar power applications for many years.

Reliable, rechargeable power
Glowstar’s rechargeable battery is microprocessor-controlled, ensuring protection, maintenance-free service. The solar panel suffers a shortfall of sunlight, simply connect Glowstar to the mains supply and the battery will receive a full top-up. An LED readout will show you the battery’s charge status.

Indicators
• Four LED indicators display Glowstar lantern status: battery full, battery good, battery low, battery off.
• To warn you if charge is low, control circuit turns lamp off for 1 second and back on when battery voltage returns to 11.4 V. At 11.3 V the lamp is switched off, depending on battery age and charging state, the lamp is restored off.

Battery protected from overcharge or discharge
• Glowstar GS7 shows Glowstar is being recharged by mains or solar panel.

• ‘Full’ LED shows lamp is on emergency lighting with security mode. (Glowstar GS7 only) When the light will automatically come on as soon as the charge power is restored.

Perfect for emergencies
The unique ‘auto’ feature of Glowstar GS7 turns the lantern into an emergency or security lamp. When used with the solar panel, the lantern automatically turns on at dusk. If connected to the mains, Glowstar GS7 will also detect power cuts and switch itself on accordingly. (This makes Glowstar ideal for carparks, hospitals and other vital services.

Excellent battery performance
Glowstar’s 12v, valve-regulated sealed lead acid battery delivers performance in all applications. Choose its low size for long-term storage, the battery is spill- and leak-proof so it can be used in any position.

Tungsten light matched up to 60W
If Glowstar is switched off with no available charge source? The battery will not slowly discharge overnight or when the lantern is not in use. When connected to a power supply, Glowstar’s control circuits detect both load. Maximum power is preserved and operational efficiency is increased.

Exceptional cost-efficiency
The unique ‘auto’ feature of Glowstar GS7 turns the lantern into an emergency or security lamp. It is designed for both remote locations – particularly the rural regions of developing countries. However, its simple lifting mechanism makes it equally desirable for urban homes and offices.

Why Glowstar delivers the best in portable and emergency lighting:
• Excellent light at all times
• Safe, rugged, portable and fully adjustable
• Zero running costs
• Long service life
• No waste, no pollution

A truly bright light for hundreds of applications