# Solar Power Supply System

**Poly Solar Technologies (Beijing) Co., Ltd**

Results based on test procedures detailed in Lighting Global Solar Home System Test Method Ed. 2.0

Valid Until: October 31, 2020

## Warranty Information

A two year warranty for the product's PV module, control unit, battery, and lamps.

## Performance Details

<table>
<thead>
<tr>
<th>Appliance^b</th>
<th>Description</th>
<th>Included with kit?</th>
<th>Power^b (W)</th>
<th>Used Alone^c</th>
<th>Used In Combination^d</th>
<th>Run Time Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main lighting</td>
<td>5 light points on totaling 1300 lm</td>
<td>included</td>
<td>16</td>
<td>13</td>
<td>7.6</td>
<td>hours</td>
</tr>
<tr>
<td>Television</td>
<td>16” diagonal</td>
<td>advertised</td>
<td>18</td>
<td>12</td>
<td>3.8</td>
<td>hours</td>
</tr>
<tr>
<td>Radio</td>
<td>portable (3 Wh battery)</td>
<td>advertised</td>
<td>--</td>
<td>300</td>
<td>5.7</td>
<td>hours</td>
</tr>
<tr>
<td>Mobile Phone</td>
<td>Smartphone (5.7 Wh battery)</td>
<td>advertised</td>
<td>--</td>
<td>26</td>
<td>1.9</td>
<td>number of full charges</td>
</tr>
</tbody>
</table>

Available daily electrical energy^d (Wh/day): 220

## Performance Measure

| Lighting full battery run time^e (hours) | 35 |
| Total light output in lumens^f | 1300 |

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^a A typical day of solar charging assumes 5 kWh/m^2/day

^b Only included appliances were tested. Run times and power ratings for appliances sold separately come from manufacturer ratings or standard estimates.

^c Without any other loads used during the run time

^d Based on an example use profile with all of the appliances listed above used in combination

^e Lighting full battery run time estimates do not account for mobile phone charging or other auxiliary loads; the run time is defined as the time until the output is 70% of the initial, stabilized output.

^f 1 candle or kerosene wick lamp = approximately 10 lumens
<table>
<thead>
<tr>
<th>Lamp Name</th>
<th>Type</th>
<th>Number of Settings</th>
<th>Light Output (lm)</th>
<th>Lumen Efficacy (lm/W)</th>
<th>CRIG</th>
<th>CCT&lt;sup&gt;h&lt;/sup&gt;</th>
<th>Distribution Type</th>
<th>Lumen Maintenance&lt;sup&gt;i&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 W Lamp</td>
<td>LED</td>
<td>1</td>
<td>258</td>
<td>81</td>
<td>86</td>
<td>Daylight (&gt; 5000 K)</td>
<td>Wide</td>
<td>&gt;102%</td>
</tr>
</tbody>
</table>

<sup>g</sup> Color Rendering Index. An index of 100 is equivalent to viewing objects in daylight; above 80 is considered good.

<sup>h</sup> Correlated Color Temperature in degrees Kelvin. Describes color appearance as warm, cool, or daylight.

<sup>i</sup> Percent of the original light output that remains after 2,000 hours of run time

### Special Features

Mobile charging and appliances  
USB and 12 V ports available to charge devices and power appliances

### Durability

Overall durability and workmanship  
Pass

Durability tests passed  
Switch and connector cycling, strain relief test, physical ingress protection test. Water ingress protection not tested; meant for indoor use only.

### Solar Details

PV module type  
Polycrystalline silicon

PV maximum power  
94 watts

### Battery Details

Battery replaceability  
Easily replaceable with common tools

Battery chemistry  
Lithium-ion

Battery package type  
72*18650

Battery capacity  
47 Ah

Battery nominal voltage  
11.1 V

Battery Status Indication  
6 LEDs show the battery capacity (4 LEDs), working status (1 LED) and PV Module input (1 LED)

### Product Details

Manufacturer name  
Poly Solar Technologies (Beijing) Co., Ltd

Product name  
Solar Power Supply System

Product model / ID number  
PL-100-H-D

Contact information  
info@polysolar.cn

Website  
www.polysolar.com.cn

Dimensions (entire product in package)  
not applicable

Weight  
13000 g

### SSS Information

Specs sheet expiration date  
October 31, 2020

Quality Standards Framework Version  
2018

Revision  
2018.10