Meets the Lighting Global Solar Home System Kit Quality Standards

- Mobile charging
- Pay-As-You-Go option available
- Light point(s)
- Plug-and-play

**WARRANTY INFORMATION**

Repair or replacement of the PV module and main unit for no less than 2 years, depending on the user agreement

**PERFORMANCE DETAILS**

<table>
<thead>
<tr>
<th>Appliance*</th>
<th>Description</th>
<th>Used aloneb</th>
<th>Used in combinationc</th>
</tr>
</thead>
<tbody>
<tr>
<td>included in kit</td>
<td>Main lighting unit</td>
<td>2 light points on high totaling 1040 lumens and 14 W power</td>
<td>20 hours</td>
</tr>
<tr>
<td></td>
<td>Mobile phone</td>
<td>Smart phone (5.7 Wh battery)</td>
<td>34 full charge(s)</td>
</tr>
<tr>
<td></td>
<td>Television</td>
<td>16&quot; diagonal (8 W power consumption while in-use)</td>
<td>35 hours</td>
</tr>
<tr>
<td></td>
<td>Fan</td>
<td>40 cm table fan (10 W power consumption while in-use)</td>
<td>28 hours</td>
</tr>
<tr>
<td></td>
<td>Radio</td>
<td>Portable radio with a power consumption of 0.5 W while in-use</td>
<td>390 hours</td>
</tr>
</tbody>
</table>

Available daily electrical energyd (Wh/day) 280

**Performance measure**

<table>
<thead>
<tr>
<th>Main lighting unit</th>
<th>Brightness setting: High</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lighting full battery run timee for main unit (hours)</td>
<td>23</td>
</tr>
<tr>
<td>Total lighting service (lumen-hours/solar-day)</td>
<td>20800</td>
</tr>
</tbody>
</table>

Available daily electrical energyd (Wh/day) 280

- Only included appliances were tested. Run times and power ratings for appliances sold separately come from manufacturer ratings or standard estimates.
- Without any other loads used during the run time.
- Based on an example use profile with all of the appliances listed in the "Used in combination" column used simultaneously.
- 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.

**LIGHTING DETAILS**

<table>
<thead>
<tr>
<th>Lamp name</th>
<th>Number of lamps</th>
<th>Number of settings</th>
<th>Setting</th>
<th>Light output (lm)</th>
<th>Lumen efficacy* (lm/W)</th>
<th>CRI*</th>
<th>CCT*</th>
<th>Distribution type</th>
<th>Lumen maintenanceh</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED Bulb</td>
<td>2</td>
<td>3</td>
<td>High</td>
<td>520</td>
<td>39</td>
<td>82</td>
<td>6400</td>
<td>Wide</td>
<td>100%</td>
</tr>
</tbody>
</table>

* Lumen efficacy is the power consumption at a light point during the light output test.
* Color Rendering Index. An index of 100 is equivalent to viewing objects in daylight; above 80 is considered good.
* Correlated Color Temperature in degrees Kelvin. Describes color appearance as warm (2700-3000 K), cool (3000-5000 K), or daylight (>5000 K)
* Percent of the original light output that remains after 2,000 hours of run time.

Results based on test procedures detailed in IEC 62257-9-5 v.4

Verifying online: https://data.verasol.org/products/sek/lumos-sps

Valid until: August 31, 2022
### SOLAR DETAILS
- **PV module type**: Polycrystalline silicon
- **PV maximum power**: 83 watts

### MAIN UNIT BATTERY DETAILS
- **Battery replaceability**: Easily replaceable with common tools; however, the warranty is void if product is opened.
- **Battery chemistry**: Lithium-ion
- **Battery capacity**: 25.7 Ah
- **Battery nominal voltage**: 14.5 V
- **Battery status indication**: One LED display shows working and charging status; one LED indicator shows functional state (OK or error)

### PORTS
- **2 USB 2.0 type A**: Mobile phones and radios can be charged.
- **4 Barrel jack**: 12 V ports available to charge devices and power appliances and light points.
- **2 Cigarette lighter**: 12 V cigarette lighter ports are available to power appliances.

### DURABILITY
- **Overall durability and workmanship**: Pass
- **Durability tests passed**: Switch test, Strain relief test, Physical ingress protection.
- **Level of water protection**: Main Unit - Water ingress protection not tested, meant for indoor use only. PV module - Has protection from permanent outdoor exposure

### PRODUCT DETAILS
- **Manufacturer name**: Lumos
- **Product name**: Solar Power Station
- **Product model / ID number**: SPS-0001
- **Contact information**: info@lumos-global.com
- **Website**: www.lumos-global.com
- **Dimensions (entire product in package)**: 38 x 31 x 40 cm
- **Mass**: 8640 g

### QUALITY ASSURANCE
- **Specs sheet expiration date**: August 31, 2022
- **Quality standards framework version**: 2020
- **Revision**: 2020.08

### DURABILITY TESTS PASSED
- Switch test
- Strain relief test
- Physical ingress protection