Sunshine Pico Lamp

Valid until: September 30, 2020

Meets the Lighting Global Pico-PV Quality Standards

- Mobile charging
- 1 Light point(s)
- Plug and play

WARRANTY INFORMATION

A two-year warranty covering manufacturing defects in the system and battery

PERFORMANCE DETAILS

<table>
<thead>
<tr>
<th>Appliancea</th>
<th>Description</th>
<th>Used aloneb</th>
<th>Used in combination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main lighting unit</td>
<td>main lighting unit with one LED lamp totalling to 170 lumens</td>
<td>12 hours</td>
<td>9.5 hours</td>
</tr>
<tr>
<td>Mobile phone</td>
<td>Basic phone (3.7 Wh battery)</td>
<td>15 full charge(s)</td>
<td>10 full charge(s)</td>
</tr>
</tbody>
</table>

Run time after a typical day of solar charging (assuming 5kWh/m²/day)

Available daily electrical energyc (Wh/day) 25

Performance measure |
| Lighting full battery run timec (hours) |
| Total light output in lumens |

Brightness setting: Super

<table>
<thead>
<tr>
<th>Performance measure</th>
<th>Brightness setting: Super</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lighting full battery run timec (hours)</td>
<td>14</td>
</tr>
<tr>
<td>Total light output in lumens</td>
<td>170</td>
</tr>
</tbody>
</table>

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

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

c Light output (lm)

c Lumen efficacy (lm/W)

LAMP DETAILS

<table>
<thead>
<tr>
<th>Lamp name</th>
<th>Number of settings</th>
<th>Setting</th>
<th>Light output (lm)</th>
<th>Lumen efficacy (lm/W)</th>
<th>CRIf</th>
<th>CCTg</th>
<th>Distribution type</th>
<th>Lumen maintenanceh</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Unit Lamp</td>
<td>3</td>
<td>Super</td>
<td>170</td>
<td>100</td>
<td>75</td>
<td>5550</td>
<td>Wide</td>
<td>&gt;94%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dim</td>
<td>120</td>
<td>100</td>
<td>75</td>
<td>5561</td>
<td>Wide</td>
<td>--</td>
</tr>
</tbody>
</table>

Sunshine Pico Lamp Sun Co.

Results based on test procedures detailed in Lighting Global Solar Home System test method, IEC 62257-9-5 v.4

Verify online: www.lightingglobal.org/products/Sun-SunshinePico

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### SPECIAL FEATURES

<table>
<thead>
<tr>
<th>LEDs</th>
<th>UV-free LEDs are used to optimize health and safety as well as efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure</td>
<td>Made from ABS plastic</td>
</tr>
<tr>
<td>Indicators</td>
<td>3 LEDs to indicate battery state of charge</td>
</tr>
</tbody>
</table>

### PORTS

| 2 | 5V USB Ports | Mobile charging is included with this product. |

### DURABILITY

- Overall durability and workmanship: Pass
- Durability tests passed: Switch test, Drop test, Strain relief test, physical ingress protection level IP3X met.
- Level of water protection: Main Lighting Unit - Has protection from frequent rain; met with IPX1 and technical protection

### SOLAR DETAILS

- PV module type: Polycrystalline silicon
- PV maximum power: 3.2 watts

### BATTERY DETAILS

- Battery replaceability: Not easily replaceable with common tools.
- Battery chemistry: Lithium-ion
- Battery package type: 18650
- Battery capacity: 2 Ah
- Battery nominal voltage: 3.7 V
- Battery status indication: Three LEDs light up to indicate the battery charge status - red light means low battery, yellow means 50% battery life remaining, and green means charging.

### MARKS AND CERTIFICATIONS

- Safety certification: UL
- Other certification: CE

### PRODUCT DETAILS

- Manufacturer name: Sun Co.
- Product name: Sunshine Pico Lamp
- Product model / ID number: 123
- Contact information: person@sunshinepico.com
- Website: www.sunshine.com
- Dimensions (entire product in package): Multiple packages. Contact manufacturer for more information.
- Weight: 2000 g

### SSS INFORMATION

- Specs sheet expiration date: September 30, 2020
- Quality standards framework version: 2018
- Revision: 2018.09