X850

d.light design

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

Valid until November 30, 2021

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Meets the Lighting Global Solar Home System Kit Quality Standards

Mobile charging

Pay-As-You-Go option available

6

Light point(s)

Plug-and-play

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WARRANTY INFORMATION

The product carries a 2-year warranty with the exception of the following for which the warranty is 1 year: TV remote, solar radio, solar torch. The TV (sold separately) includes a 2-year warranty.

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PERFORMANCE DETAILS

Performance measure | Brightness setting: 4 lamps and 1 tubelight on high; torch on high

<table>
<thead>
<tr>
<th>Appliance</th>
<th>Description</th>
<th>Used alone</th>
<th>Used in combination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main lighting unit</td>
<td>5 light points on high totaling 1380 lm and 12 W.</td>
<td>5.4 hours</td>
<td>1.7 hours</td>
</tr>
<tr>
<td>Radio</td>
<td>portable (1 Ah battery, 3.7 V nominal voltage, with a power consumption of 0.39 W while in-use)</td>
<td>110 hours</td>
<td>1.7 hours</td>
</tr>
<tr>
<td>Torch</td>
<td>1.8 Ah, 88 lumens torch, 3.7 V nominal voltage</td>
<td>37 hours</td>
<td>2.3 hours</td>
</tr>
<tr>
<td>Mobile phone</td>
<td>Smart phone (5.7 Wh battery)</td>
<td>13 full charge(s)</td>
<td>0.57 full charge(s)</td>
</tr>
<tr>
<td>Television</td>
<td>19&quot; diagonal (8.3 W power consumption while in-use)</td>
<td>14 hours</td>
<td>1 hours</td>
</tr>
<tr>
<td>Fan</td>
<td>fan (28 W)</td>
<td>4 hours</td>
<td>2.5 hours</td>
</tr>
</tbody>
</table>

Available daily electrical energy (Wh/day): 110

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*PAYG*

Plug-and-play

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 in the "Used in combination" column used simultaneously.

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.

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*Quality Verified TV sold separately*
<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>CRIT</th>
<th>CCTg</th>
<th>Distribution type</th>
<th>Lumen maintenanceh</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hanging lamp</td>
<td>4</td>
<td>3</td>
<td>high</td>
<td>230</td>
<td>110</td>
<td>86</td>
<td>5779</td>
<td>Wide</td>
<td>100%</td>
</tr>
<tr>
<td>Tube light</td>
<td>1</td>
<td>3</td>
<td>high</td>
<td>460</td>
<td>110</td>
<td>87</td>
<td>5890</td>
<td>Wide</td>
<td>100%</td>
</tr>
<tr>
<td>Torch</td>
<td>1</td>
<td>2</td>
<td>high</td>
<td>88</td>
<td>67</td>
<td>73</td>
<td>6914</td>
<td>Narrow</td>
<td>96%</td>
</tr>
</tbody>
</table>

* Lumen efficacy is the power consumption at a light point during the light output test.

1 Color Rendering Index. An index of 100 is equivalent to viewing objects in daylight; above 80 is considered good.

2 Correlated Color Temperature in degrees Kelvin. Describes color appearance as warm (2700-3000 K), cool (3000-5000 K), or daylight (>5000 K)

3 Percent of the original light output that remains after 2,000 hours of run time

### SPECIAL FEATURES

**TV**

- Quality verified d.light 19" TV available for purchase separately (model number SV19S)

**Housing**

- Available with a metal or plastic housing

### PORTS

- **USB 2.0 type A**
  - Mobile phones and radios can be charged. Adapters are included.
- **Barrel jack**
  - 12 V ports available to charge devices and power appliances
- **Lamp Port**
  - Barrel jack for lamps

### DURABILITY

**Overall durability and workmanship**

- Pass

**Durability tests passed**

- Switch test, Drop test, Strain relief test, physical ingress protection.
- Main Lighting Unit: Water ingress protection not tested, meant for indoor use only.
- PV module: Has protection from permanent outdoor exposure
- Torch: Has protection from occasional rain; met with appropriate warning label
- radio: Has protection from occasional rain; met with appropriate warning label

### SOLAR DETAILS

**PV module type**

- Polycrystalline silicon

**PV maximum power**

- 40 watts

### BATTERY DETAILS

**Battery replaceability**

- Not easily replaceable with common tools.

**Battery chemistry**

- Lithium iron phosphate

**Battery package type**

- 4x IFR 32700

**Battery capacity**

- 6 Ah (main unit)

**Battery nominal voltage**

- 12.8 V (main unit)

**Battery status indication**

- LEDs indicate battery state of charge

### MARKS AND CERTIFICATIONS

**Factory certification**


### PRODUCT DETAILS

**Manufacturer name**

- d.light design

**Product name**

- X850

**Product model / ID number**

- X850

**Contact information**

- testing@dlight.com

**Website**

- www.dlight.com

**Dimensions (entire product in package)**

- 25 x 33 x 13 cm

**Mass**

- 2605 g

### SSS INFORMATION

**Specs sheet expiration date**

- November 30, 2021

**Quality standards framework version**

- 2019

**Revision**

- 2019.10