Multi 300 XL

Niwa - Next Energy Products Ltd.

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

Verify online: www.lightingglobal.org/products/niwa-multi300xl

Valid until February 29, 2022

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Meets the Lighting Global Pico-PV Quality Standards

Mobile charging

Light point(s)

Plug-and-play

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WARRANTY INFORMATION

A two-year warranty covering manufacturing and material defects

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PERFORMANCE DETAILS

<table>
<thead>
<tr>
<th>Appliancea</th>
<th>Description</th>
<th>Run time after a typical day of solar charging (assuming 5kWh/m²/day)</th>
</tr>
</thead>
<tbody>
<tr>
<td>included in kit</td>
<td>One light on high (ultra) with 290 lumens and 4.2 W power</td>
<td>3.3 hours</td>
</tr>
<tr>
<td></td>
<td>One light on bedlight setting with 10 lumens and 0.1 W power</td>
<td>89 hours</td>
</tr>
<tr>
<td>sold separately</td>
<td>Mobile phone</td>
<td>0.7 full charge(s)</td>
</tr>
</tbody>
</table>

Available daily electrical energyb (Wh/day) 6

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Brightness setting: Ultra

<table>
<thead>
<tr>
<th>Performance measure</th>
<th>Brightness setting: Ultra</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lighting full battery run timec for main unit (hours)</td>
<td>4.3</td>
</tr>
<tr>
<td>Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any auxiliary lights included with the product)</td>
<td>960</td>
</tr>
</tbody>
</table>

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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>CRId</th>
<th>CCTe</th>
<th>Distribution type</th>
<th>Lumen maintenancea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Integrated lamp</td>
<td>1</td>
<td>5</td>
<td>Ultra</td>
<td>290</td>
<td>110</td>
<td>86</td>
<td>5200</td>
<td>Wide</td>
<td>100%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>High</td>
<td>190</td>
<td>110</td>
<td>86</td>
<td>5200</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Mid</td>
<td>91</td>
<td>120</td>
<td>86</td>
<td>5200</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Low</td>
<td>44</td>
<td>120</td>
<td>86</td>
<td>5200</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Bedlight</td>
<td>10</td>
<td>110</td>
<td>86</td>
<td>5200</td>
<td>--</td>
<td>--</td>
</tr>
</tbody>
</table>

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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 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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Available daily electrical energyb (Wh/day) 6

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

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

- 5 brightness settings (Ultra, High, Mid Low, Bed Light)

**Ports**

- **USB 2.0 type A**

Mobile phones can be charged. Adapters are included.

**Durability**

- Overall durability and workmanship: Pass
- Durability tests passed: Switch test, Drop test, physical ingress protection (IP6X).
- Level of water protection:
  - Main Lighting Unit: has protection from permanent outdoor exposure; met IPX5
  - PV module: Has protection from permanent outdoor exposure

**Solar Details**

- PV module type: Polycrystalline silicon
- PV maximum power: 3 watts

**Battery Details**

- Battery replaceability: Not easily replaceable with common tools.
- Battery chemistry: Lithium iron phosphate
- Battery capacity: 3.5 Ah
- Battery nominal voltage: 3.2 V
- Battery status indication: One indicator on the integrated lamp displays battery charge state

**Marks and Certifications**

- Factory certification: ISO 9001

**Product Details**

- Manufacturer name: Niwa - Next Energy Products Ltd.
- Product name: Multi 300 XL
- Product model / ID number: Multi 300 XL
- Contact information: sales@niwasolar.com
- Website: www.niwasolar.com
- Dimensions (entire product in package): 240 x 90 x 277 cm
- Mass: 1450 g

**SSS Information**

- Specs sheet expiration date: February 28, 2022
- Quality standards framework version: 2020
- Revision: 2020.03