

# ovBeacon MB2-290

ovSolar (Omnivoltaic Power Company Limited)

Verify Online:

Results based on test procedures detailed in IEC 62257-9-5, ed. 2.0

[www.lightingglobal.org/products/mar-mb2290](http://www.lightingglobal.org/products/mar-mb2290)

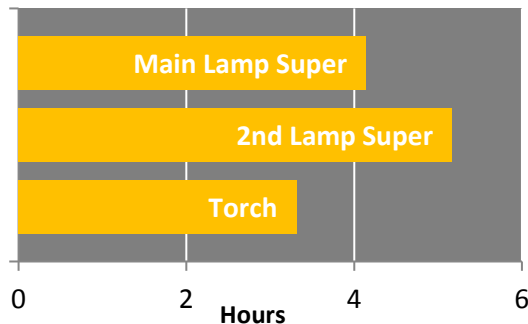
Valid Until: June 30, 2018

Lumens

Solar Run Time

330

Main Lamp and 2nd Lamp Super with Torch



Meets Lighting Global Quality Standards



Mobile Charging

3

Light Points

## Warranty Information

A 2-year warranty against material or manufacturing defects.

## Performance Details

| Performance Measure                                       | Brightness Setting***  |                 |                |          |
|---|--|-----------------|----------------|----------|
|   | Main Lamp and 2nd Lamp Super with Torch                      | Main Lamp Super | 2nd Lamp Super | Torch On |
| Full battery run time* (hours)                            | --   | 5.3             | 5.7            | 5        |
| Run time per day of solar charging* (hours)               | 4.2 (Main Lamp Super)<br>5.7 (2nd Lamp Super)<br>3.6 (Torch) | --              | --             | --       |
| Total light output (lumens)                               | 210 (Main Lamp Super)<br>92 (2nd Lamp Super)<br>32 (Torch)   | 210             | 92             | 32       |
| Total area with illumination > 50 lux** (m <sup>2</sup> ) | --   | 1.1             | 0.13           | 0.2      |
| Total lighting service (lumen-hours / solar-day)          | 1500   | --              | 470            | --       |

\* 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.

\*\* Total area with illumination > 50 lux is determined by the maximum area with adequate illumination at a 0.75 m distance and at the distance from which the product would normally provide task lighting service.

\*\*\* Additional brightness settings (not tested): Main lamp Normal, Main lamp Bed Light, Secondary Lamp Normal, Secondary Lamp Bed Light

**Lighting Details**

|                             |   |
|-----------------------------|---|
| Lamp type                   | LED   |
| Description of light points | One main lamp, one secondary lamp, and one torch              |
| Colour characteristics      | CRI 72<br>CCT "Near Daylight" (3000-5000 K)                   |
| Distribution type           | Wide  |
| Lumen maintenance           | 93% of the original output remains after 2,000 hours run time |

**Special Features**

|                 |  |
|-----------------|--|
| Mobile charging | Adapters included to charge mobile phone from Main lamp battery        |
| Product box     | Box acts as a stand to use Main lamp and Secondary lamp as desk lights |
| LEDs            | UV-free LEDs   |
| Batteries       | High-temperature batteries used  |
| Remote          | Torch acts as wireless remote to turn Main and Secondary lamp on/off   |

**Durability**

|                                    |  |
|------------------------------------|--|
| Overall durability and workmanship | Pass   |
| Durability tests passed            | Drop test, switch and connector cycling, strain relief test, physical ingress protection test. protection from occasional rain |

**Solar Details**

|                        |                         |
|------------------------|-------------------------|
| PV module type         | Polycrystalline silicon |
| PV maximum power point | 3.9 watts               |

**Battery Details**

|  |   |
|--|---|
| Battery replaceability                 | Easily replaceable with common tools                              |
| Battery chemistry                      | Lithium iron phosphate  |
| Battery package type                   | Main lamp: 26650<br>Secondary Lamp:18650<br>Torch: 14500          |
| Battery capacity                       | Main lamp: 3200 mAh<br>Secondary Lamp: 1500 mAh<br>Torch: 540 mAh |
| Battery nominal voltage                | 3.2 V   |
| Appropriate battery protection circuit | Pass  |

**Product Details**

|                           |   |
|---------------------------|---|
| Manufacturer name         | ovSolar (Omnivoltaic Power Company Limited) |
| Product name              | ovBeacon MB2-290                            |
| Product model / ID number | MB2-290                                     |
| Contact information       | info@ovsolar.com                            |
| Website                   | www.ovsolar.com                             |

**SSS Information**

|                                     |               |
|-------------------------------------|---------------|
| Specs sheet expiration date         | June 30, 2018 |
| Quality Standards Framework Version | 2016          |
| Revision                            | 2016.06       |