

ovBeacon MB2-160

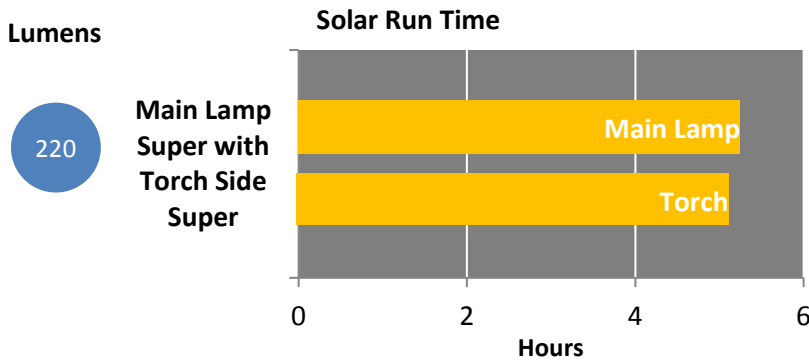
ovSolar (Omnivoltaic Power Company Limited)

Verify Online:

www.lightingglobal.org/products/mar-mb2160

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

Valid Until: June 30, 2019



Meets Lighting Global Quality Standards

Mobile Charging

2 Light Points

Warranty Information

A 2-year warranty against material or manufacturing defects.

Performance Details

Performance Measure	Brightness Setting**	
	Main Lamp Super with Torch Side Super	Main Lamp Night with Torch Front
Full battery run time* (hours)	5.8 (Main Lamp Super) 5.3 (Torch Side Super)	92 (Main Lamp Night) 5.5 (Torch Front)
Run time per day of solar charging* (hours)	5.4 (Main Lamp Super) 5.1 (Torch Side Super)	84 (Main Lamp Night) 5 (Torch Front)
Total light output (lumens)	180 (Main Lamp Super) 36 (Torch Side Super)	13 (Main Lamp Night) 31 (Torch Front)
Total lighting service (lumen-hours / solar-day)	1200	1200

* 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.

** Additional brightness settings (not tested): Main lamp Normal, Main lamp Night, Main Lamp Flashing, Torch Side Night, Torch Front Flashing

Lighting Details

Lamp type	LED
Description of light points	One main lamp and one torch
Colour characteristics	CRI 83 CCT Main Lamp: "Near Daylight" (3000-5000K); Torch Side: "Cool" (5000-7000K)
Distribution type	Main Lamp and Torch Side: Wide Torch Front: Narrow
Lumen maintenance	Main Lamp: 99%; Torch: 98% 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
LEDs	UV-free LEDs
Batteries	High-temperature batteries used
Remote	Torch acts as wireless remote to turn Main 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. Torch meets the water ingress requirements with a warning label.

Solar Details

PV module type	Polycrystalline silicon
PV maximum power point	2.8 watts

Battery Details

Battery replaceability	Main Lamp: Easily replaceable with common tools Torch: Not easily replaceable with common tools
Battery chemistry	Main Lamp: Li-Ion (3.6 - 3.7 V/cell) Torch: LiFePO4 (3.2 - 3.3 V/cell)
Battery package type	Main lamp: 26650 Torch: 14500
Battery capacity	Main lamp: 2400 mAh Torch: 520 mAh
Battery nominal voltage	Main Lamp: 3.7 V Torch: 3.2 V
Appropriate battery protection circuit	Pass

Product Details

Manufacturer name	ovSolar (Omnivoltaic Power Company Limited)
Product name	ovBeacon MB2-160
Product model / ID number	MB2-160
Contact information	info@ovsolar.com
Website	www.ovsolar.com

SSS Information

Specs sheet expiration date	June 30, 2019
Quality Standards Framework Version	2017
Revision	2017.06