

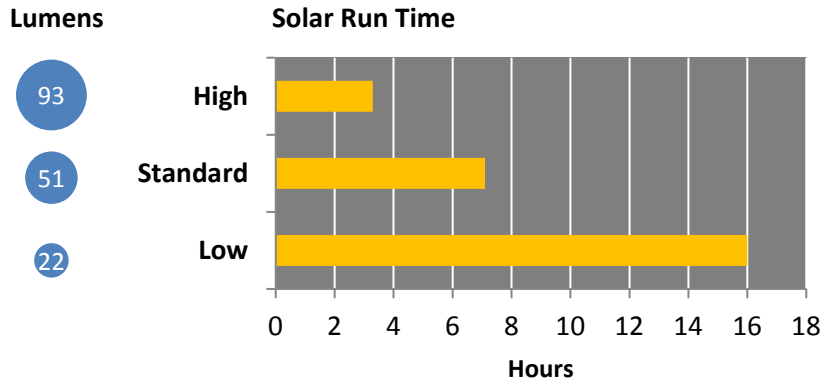
# Multi 100 Plus

Niwa - Next Energy Products Ltd.

Verify Online: <http://www.lightingglobal.org/products/niwa-multi100/>

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

Valid Until: July 31, 2016



Meets Lighting Global Minimum Quality Standards

Mobile Charging

1 Light Point

## Warranty Information

A 24-month limited warranty

## Performance Details

Performance Measure	Brightness Setting***		
	High	Standard	Low
Full battery run time* (hours)	4.9	8.7	20
Run time per day of solar charging* (hours)	3.3	7.1	16
Total light output (lumens)	93	51	22
Total area with illumination > 25 lux** (m <sup>2</sup> )	0.34	--	--
Total lighting service (lumen-hours / solar-day)	310	360	350

\* 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 > 25 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):

## Lighting Details

Lamp type	LED
Description of light points	6 LEDs in circular plastic enclosure
Colour characteristics	CRI 86 CCT "Cool" (5000-7000 K)
Distribution type	Wide
Lumen maintenance	99% of the original output remains after 2,000 hours run time

**Special Features**

Mobile charging	Adapters included to charge mobile phone from battery
Indicators	PV charging indicator light
Other Features	Light Mode Slider, Super-Flex Handle, Rain Protection Cap

**Durability**

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

**Solar Details**

PV module type	Polycrystalline silicon
PV maximum power point	1.3 watts

**Battery Details**

Battery replaceability	Easily replaceable with common tools
Battery chemistry	Lithium iron phosphate
Battery package type	18650 cylindrical cell
Battery capacity	1600 mAh
Battery nominal voltage	3.2 V
Appropriate battery protection circuit	Pass

**Marks and Certifications**

Other certifications	CE, RoHS & REACH Compliance
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**Product Details**

Manufacturer name	Niwa - Next Energy Products Ltd.
Product name	Multi 100 Plus
Product model / ID number	Multi 100 Plus
Contact information	sales@niwasolar.com
Website	www.niwasolar.com

**SSS Information**

Specs sheet expiration date	July 31, 2016
Minimum Quality Standards Framework Version	2014
Revision	2016.01