

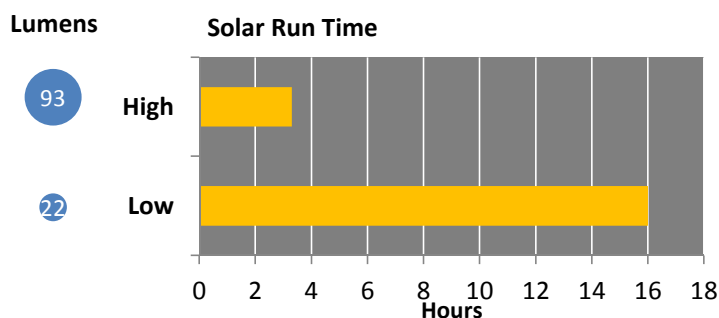
Multi 100 Plus

Niwa - Next Energy Products Ltd.

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

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

Valid Until: March 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	Low
Full battery run time* (hours)	4.9	20
Run time per day of solar charging* (hours)	3.3	16
Total light output (lumens)	93	22
Total area with illumination > 25 lux** (m ²)	0.34	--
Total lighting service (lumen-hours / solar-day)	310	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): Standard

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

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	March 2016
Minimum Quality Standards Framework Version	2014
Revision	2014.01