

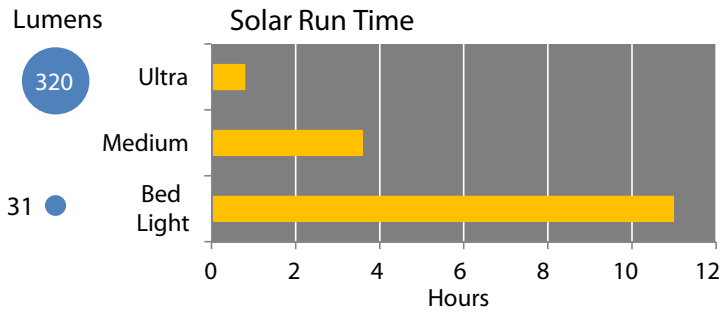
Multi 300

Niwa - Next Energy Products Ltd.

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

Verify Online: www.lightingglobal.org/specs/niwa-multi300

Valid Until: May, 2015



Meets Lighting Global Minimum
Quality Standards



Mobile Charging

1

Light Point

Warranty Information

24-month limited warranty.

Performance Details

Performance Measure	Brightness Setting***	
	Ultra	Bed Light
Full battery run time* (hours)	1.1	14
Run time per day of solar charging* (hours)	0.8	11
Total light output (lumens)	320	31
Total area with illumination > 25 lux** (m ²)	1	--
Total lighting service (lumen-hours / solar-day)	260	340

* 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): High, Mid, Low

Lighting Details

Lamp type	LED
Description of light points	Two arrays with 6 LEDs each
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	
Settings	5 brightness settings (Ultra, High, Mid, Low, Bed Light)
Auxiliary loads	USB port for charging mobile phones and operating a radio from the battery
Durability	
Overall durability and workmanship	Pass
Durability tests passed	Drop test, switch and connector cycling, physical ingress protection test, and protection from occasional rain
Solar Details	
PV module type	Polycrystalline silicon
PV maximum power point	1.5 watts
Battery Details	
Battery replaceability	Easily replaceable with common tools
Battery chemistry	Lithium iron phosphate
Appropriate battery protection circuit	Pass
Replacement batteries are available from the product manufacturer	
Marks and Certifications	
Other certification	CE, EMC, RoHS
Product Details	
Manufacturer name	Niwa - Next Energy Products Ltd.
Product name	Multi 300
Product model / ID number	NW003S
Contact information	sales@niwasolar.com
Website	www.niwasolar.com
SSS Information	
Specs sheet expiration date	May, 2015
Minimum Quality Standards Framework Version	2012
Revision	2013.09