

Multi 300 XL

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Niwa - Next Energy Products Ltd.

Results based on test procedures detailed in IEC 62257-9-5 v.4

Verify online:

www.lightingglobal.org/products/niwa-multi300xl

Valid until February 28, 2022



Meets the Lighting Global Pico-PV Quality Standards



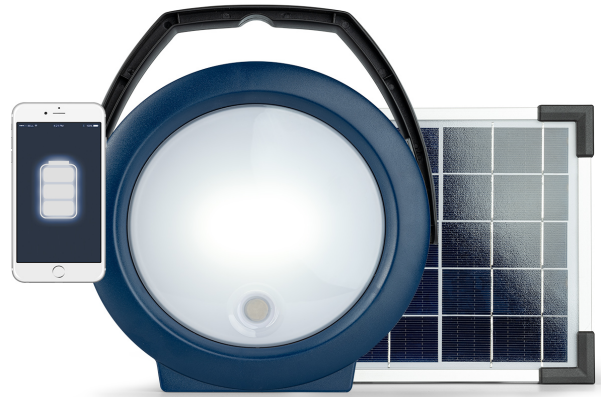
Mobile charging

1

Light point(s)



Plug-and-play



WARRANTY INFORMATION

A two-year warranty covering manufacturing and material defects

PERFORMANCE DETAILS

			Run time after a typical day of solar charging (assuming 5kWh/m ² /day)		
		Appliance ^a	Description	Used alone ^b	Used in combination ^c
included in kit	Main lighting unit	One light on high (ultra) with 290 lumens and 4.2 W power		3.3 hours	1.5 hours
		One light on bedlight setting with 10 lumens and 0.1 W power		89 hours	--
sold separately	Mobile phone	Smart phone (5.7 Wh battery)		0.7 full charge(s)	0.4 full charge(s)

Available daily electrical energy^f (Wh/day) 6

Performance measure	Brightness setting: Ultra
Lighting full battery run time ^d for main unit (hours)	4.3
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any auxiliary lights included with the product)	960

^a Only included appliances were tested. Run times and power ratings for appliances sold separately come from manufacturer ratings or standard estimates.

^b Without any other loads used during the run time

^c Based on an example use profile with all of the appliances listed in the "Used in combination" column used simultaneously.

^d Lighting full battery 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.

LIGHTING DETAILS

Lamp name	Number of lamps	Number of settings	Setting	Light output (lm)	Lumen efficacy ^e (lm/W)	CRI ^f	CCT ^g	Distribution type	Lumen maintenance ^h
Integrated lamp	1	5	Ultra	290	110	86	5200	Wide	100%
			High	190	110	86	5200	--	--
			Mid	91	120	86	5200	--	--
			Low	44	120	86	5200	--	--
			Bedlight	10	110	86	5200	--	--

^e Lumen efficacy is the power consumption at a light point during the light output test.

^f Color Rendering Index. An index of 100 is equivalent to viewing objects in daylight; above 80 is considered good.

^g Correlated Color Temperature in degrees Kelvin. Describes color appearance as warm (2700-3000 K), cool (3000-5000 K), or daylight (>5000 K)

^h Percent of the original light output that remains after 2,000 hours of run time

SPECIAL FEATURES**Settings****5 brightness settings (Ultra, High, Mid Low, Bed Light)****Solar Powered Radio - sold separately****1000 mAh Li-Ion Battery with .34 W power consumption while in use****PORTS****1****USB 2.0 type A**

Mobile phones can be charged. Adapters are included.

DURABILITY

Overall durability and workmanship

Pass

Durability tests passed

Switch test, Drop test, physical ingress protection (IP6X).

Level of water protection

Main Lighting Unit

has protection from permanent outdoor exposure; met IPX5

PV module

Has protection from permanent outdoor exposure

SOLAR DETAILS

PV module type

Polycrystalline silicon

PV maximum power

3 watts

BATTERY DETAILS

Battery replaceability

Not easily replaceable with common tools.

Battery chemistry

Lithium iron phosphate

Battery package type

1 x 26650

Battery capacity

3.5 Ah

Battery nominal voltage

3.2 V

Battery status indication

One indicator on the integrated lamp displays battery charge state

MARKS AND CERTIFICATIONS

Factory certification

ISO 9001

PRODUCT DETAILS

Manufacturer name

Niwa - Next Energy Products Ltd.

Product name

Multi 300 XL

Product model / ID number

Multi 300 XL

Contact information

sales@niwasolar.com

Website

www.niwasolar.com

Dimensions (entire product in package)

240 x 90 x 277 cm

Mass

1450 g

SSS INFORMATION

Specs sheet expiration date

February 28, 2022

Quality standards framework version

2020

Revision

2020.04