

Starlight ONE

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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-star

Valid until: January 31, 2022



Meets the Lighting Global Pico-PV Quality Standards



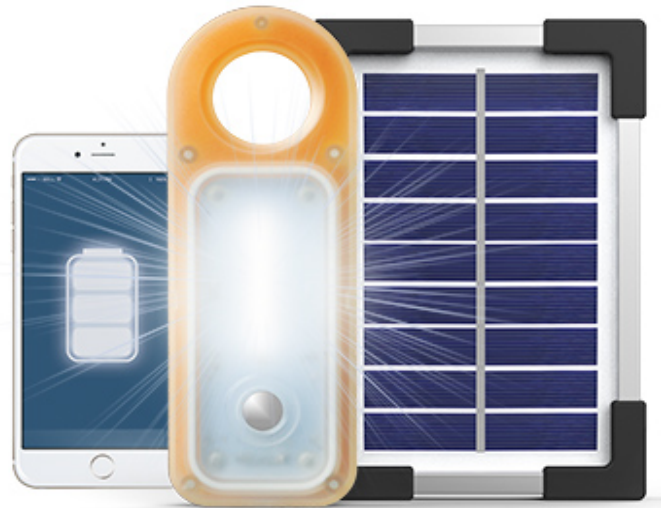
Mobile charging

1

Light point(s)



Plug-and-play



WARRANTY INFORMATION

A 2-year warranty covering manufacturing defects in the system.

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		An integrated light on High with 150 lumens and 1.5 W.	2.7 hours	1 hours
			An integrated light on Low with 9.5 lumens and 0.1 W	44 hours	--
sold separately	Smart Phone		Smart phone (5.7 Wh battery)	0.4 full charge(s)	0.2 full charge(s)
	Basic phone		Basic phone (3.7 Wh battery)	0.6 full charge(s)	--

Available daily electrical energy^c (Wh/day) 2.8

Performance measure	Brightness setting: High
Lighting full battery run time ^d for main unit (hours)	3.6
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any auxiliary lights included with the product)	400

^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 Light	1	3	High	150	110	84	3900	Wide	99%
			Medium	66	120	84	3900	--	--
			Low	9.5	120	85	3900	--	--

^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	
LEDs	 UV-free LEDs
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, Strain relief test, physical ingress protection.
Level of water protection	Main Lighting Unit
	PV module
Has protection from permanent outdoor exposure. Met IP65.	
Has protection from permanent outdoor exposure.	
SOLAR DETAILS	
PV module type	Polycrystalline silicon
PV maximum power	1.5 watts
BATTERY DETAILS	
Battery replaceability	Not easily replaceable with common tools.
Battery chemistry	Lithium iron phosphate
Battery package type	18650
Battery capacity	1.5 Ah
Battery nominal voltage	3.2 V
Battery status indication	There is a red LED light to indicate the product is charging and a green LED to indicate the product is fully charged.
PRODUCT DETAILS	
Manufacturer name	Niwa - Next Energy Products Ltd.
Product name	Starlight ONE
Product model / ID number	Starlight ONE
Contact information	sales@niwasolar.com
Website	www.niwasolar.com
Dimensions (entire product in package)	18.1 x 18.3 x 4.1 cm
Mass	573 g
SSS INFORMATION	
Specs sheet expiration date	January 31, 2022
Quality standards framework version	2018
Revision	2020.01