Multi 300 XL

Multi 300 XL Niwa - Next Energy Products Ltd. Results based on test procedures detailed in IEC 62257-9-5 v.4

Verify online.

https://data.verasol.org/products/sek/niwa-multi300x/ Valid until: August 31 2022



Meets the Lighting Global Pico-PV Quality Standards



Mobile charging



Light point(s)



Plug-and-play



Run time after a typical day of solar

WARRANTY INFORMATION

A two-year warranty covering manufacturing and material defects

PERFORMANCE DETAILS

			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	
in in ingruing unit	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^c (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)	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.

¹Color Rendering Index. An index of 100 is equivalent to viewing objects in daylight; above 80 is considered good.

⁹ 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 (L	a, High, Mid Low, Bed Light)				
Solar Powered Radio - sold separately	1000 mAh Li-lon Batter	1000 mAh Li-lon 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				
Level of water protection	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		August 31, 2022				
Quality standards framework version		2020				
Revision		2020.04				