

Multi 300 XL

0408
Niwa Next Energy Products Ltd.

Verify online:
<https://data.verasol.org/products/sek/niwa-multi300xl>
Valid until: February 28, 2025

Results based on test procedures detailed in IEC TS 62257-9-5 and IEC TS 62257-9-8



Meets the requirements in IEC TS 62257-9-8:2020 for Size A Kits



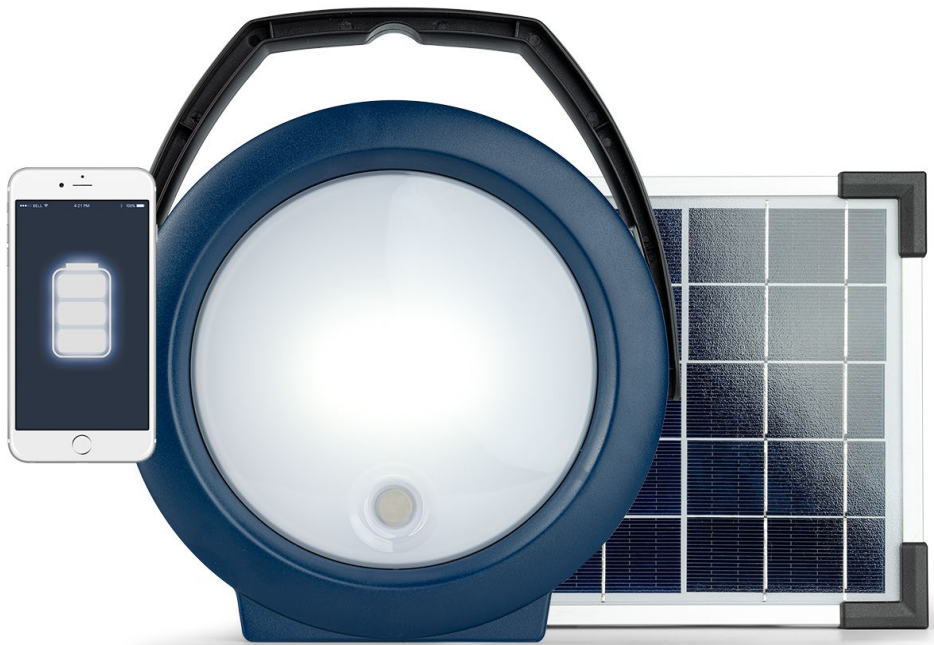
Mobile charging

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)	
VeraSol Certified?	Included in Kit?	Appliance ^a	Description	Used alone ^b	Used in combination ^c
yes	included	Main lighting unit ("Ultra" setting)	One light on ""Ultra" setting with 290 lumens and 4.2 W power	3.3 hours	1.5 hours
yes	included	Main lighting unit ("Bedlight" setting)	One light on "Bedlight" setting with 10 lumens and 0.1 W power	89 hours	n/a
no	not included	Mobile phone	Baisc phone (3.7 Wh battery)	1.8 full charge(s)	n/a
no	not included	Smart phone	Smart phone (5.7 Wh battery)	0.7 full charge(s)	0.4 full charge(s)

Available daily electrical energy ^c (Wh/day)	6.0
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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 lights with internal batteries 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	not tested	not tested
			Mid	91	120	86	5200	not tested	not tested
			Low	44	120	86	5200	not tested	not tested
			Bedlight	10	110	86	5200	not tested	not tested

^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, Bedlight)
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 (IP6X), PV durability tests
Level of water protection	Main 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
MAIN UNIT BATTERY DETAILS			
Battery replaceability			Easily replaceable with common tools; however, the warranty is void if product is opened.
Battery chemistry			Lithium iron phosphate
Battery package type			1 x 26650
Battery capacity			3.5 Ah
Battery nominal voltage			3.2 V
Battery status/ other indicator lights			One indicator on the integrated lamp displays battery charge state.
PRODUCT DETAILS			
Manufacturer name			Niwa Next Energy Products Ltd.
Product name			Multi 300 XL
Product model / ID number			0408
Contact information			sales@niwa.com.hk
Website			www.niwa.com.hk
Dimensions (entire product in package)			240 x 90 x 280 cm
Mass			1450 g
SSS INFORMATION			
Specs sheet expiration date			February 28, 2025
Revision			2023.12