

# Multi 300 XL

0408  
Brand name: Niwa

Verify online:  
<https://data.verasol.org/products/sek/niwa-multi300xl>  
Valid until: July 31, 2028

Results based on test procedures detailed in IEC TS 62257-9-5:2024



Meets the Requirements in IEC TS 62257-9-8:2025 for  
Size A kits



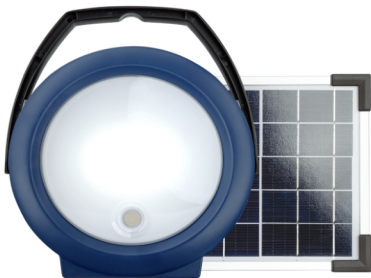
Mobile charging

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 <sup>2</sup> /day)	
VeraSol Certified?	Included in Kit?	Appliance <sup>a</sup>	Description	Used alone <sup>b</sup>	Used in combination <sup>c</sup>
yes	included	Main lighting unit	One light on "Ultra" setting with 310 lumens and 2.6 W power	3.9 hours	0.9 hours
no	not included	Smart phone	Smart phone (15 Wh battery)	0.28 full charge(s)	0.22 full charge(s)

Available daily electrical energy (Wh/day)	6.8
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Performance measure	Brightness setting: Ultra
Lighting full battery run time for main unit (hours)	4.2
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	1210

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

<sup>b</sup> Without any other loads used during the run time

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

<sup>d</sup> 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 name	Light output (lm)	Power Consumption (W)	Lumen efficacy <sup>e</sup> (lm/W)	CRI <sup>f</sup>	CCT <sup>g</sup>	Lumen maintenance <sup>h</sup>
Integrated lamp	1	5	Ultra	310	2.6	120	86	5600	99
			High	200	1.6	120	85	5700	Not tested

<sup>e</sup> Lumen efficacy is the power consumption at a light point during the light output test.

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

<sup>g</sup> Correlated Color Temperature in kelvin. Describes color appearance as warm (2700-3000 K), cool (3000-5000 K), or daylight (>5000 K)

<sup>h</sup> 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 3.0 type A



Mobile phones can be charged.

## DURABILITY

Overall durability and workmanship		Pass
Durability tests passed		Switch test, Drop test, Strain relief test, Physical ingress protection (IP6X)
Level of water protection	Main Unit	Has protection from permanent outdoor exposure; met IPX5/IPX7
	PV module	Has protection from permanent outdoor exposure

## SOLAR DETAILS

PV module type	Polycrystalline silicon
PV maximum power	3.1 watts
PV rated power	3 watts
PV open-circuit voltage (V <sub>OC</sub> )	5.8 volts

## 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	3.6 Ah
Rated 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

Company name	Niwa Next Energy Products Ltd.
Brand Name	Niwa
Product name	Multi 300 XL
Product model / ID number	0408
Contact information	sales@niwa.com.hk
Website	www.niwa.com.hk
Mass	1340 g

## SSS INFORMATION

Specs sheet expiration date	July 31, 2028
Revision	2025.08