

# LUMN L500

L500

Omnivoltaic Energy Solutions Co., Ltd.

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

Verify online:

<https://data.verasol.org/products/sek/omni-l500>

Valid until: May 31, 2023



Meets the Lighting Global Pico-PV Quality Standards



Mobile charging

PAYG

Pay-As-You-Go option available

1

Light point(s)



Plug-and-play



## WARRANTY INFORMATION

A 2-year warranty covering manufacturing defects.

## PERFORMANCE DETAILS

			Run time after a typical day of solar charging (assuming 5kWh/m <sup>2</sup> /day)	
	Appliance <sup>a</sup>	Description	Used alone <sup>b</sup>	Used in combination <sup>c</sup>
included in kit	Main lighting unit	1 light point on (high) totaling 500 lumens and 3.4 W power	7.1 hours	3.7 hours
sold separately	Mobile phone	Basic phone (3.7 Wh battery)	4.4 full charge(s)	--
	Mobile phone	Smart phone (5.7 Wh battery)	2.8 full charge(s)	0.9 full charge(s)
	Radio	portable radio (Li-ion battery: 1 Ah, 3.7 V) with rated power consumption of 0.39 W.	34 hours	2.8 hours
	Torch	46 lumens torch, (LiFePO4 battery: .5 Ah, 3.2 V)	55 hours	3.7 hours

Available daily electrical energy<sup>e</sup> (Wh/day) 21

Performance measure	Brightness setting: Super
Lighting full battery run time <sup>d</sup> for main unit (hours)	9.1
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	3550

<sup>a</sup> Only included appliances were tested. Run times and power ratings for appliances sold separately were tested.

<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	Light output (lm)	Lumen efficacy <sup>e</sup> (lm/W)	CRI <sup>f</sup>	CCT <sup>g</sup>	Distribution type	Lumen maintenance <sup>h</sup>
Main Lamp	1	3	Super	500	150	82	5047	Wide	99%
			Night	51	140	82	5037	Wide	--

<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 degrees 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		
		
PORTS		
1	USB 2.0 type A	 Mobile phones can be charged. Adapters are included.
3	Barrel jack	 Three 7.2 V Barrel ports available to power light points
DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Drop test, Strain relief test, Physical ingress protection.
Level of water protection	Main Unit	Has protection from occasional rain; met with appropriate warning label
	PV module	Has protection from permanent outdoor exposure
SOLAR DETAILS		
PV module type		Polycrystalline silicon
PV maximum power		5.7 watts
MAIN UNIT BATTERY DETAILS		
Battery replaceability		Not easily replaceable with common tools.
Battery chemistry		Lithium-ion
Battery package type		2 X (2 X 18650)
Battery capacity		4.9 Ah
Battery nominal voltage		7.2 V
Battery status indication		Three indicators for battery state-of-charge
MARKS AND CERTIFICATIONS		
Factory certification		ISO 9001:2008; ISO 14001:2004
PRODUCT DETAILS		
Manufacturer name		Omnivoltaic Energy Solutions Co., Ltd.
Product name		LUMN L500
Product model / ID number		L500
Contact information		sales@omnivoltaic.com
Website		www.omnivoltaic.com
Dimensions (entire product in package)		Multiple packages. Contact manufacturer for more information.
Mass		1010 g
SSS INFORMATION		
Specs sheet expiration date		May 31, 2023
Quality standards framework version		2020
Revision		2020.11