LUMN L500

L500

Omnivoltaic Energy Solutions Co. Ltd. / Omnivoltaic (Shenzhen) Co. Ltd.

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

Verify online:

https://data.verasol.org/products/sek/omni-I500

Valid until: August 31, 2025



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



Mobile charging

PAYG

Pay-As-You-Go option available



Light point(s)



Plug-and-play



3.7 hours

55 hours

WARRANTY INFORMATION

PERFORMANCE DETAILS

no

A 2-year warranty covering manufacturing defects.

					pical day of solar ging kWh/m²/day)
VeraSol Certified?	Included in Kit?	Appliance ^a	Description	Used alone ^b	Used in combination ^c
yes	included	Main lighting unit	1 light point on (high) totaling 500 lumens and 3.4 W power	7.1 hours	3.7 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	4.4 full charge(s)	
no	not included	Mobile phone	Smart phone (5.7 Wh battery)	2.8 full charge(s)	0.91 full charge(s)
no	not included	Radio	Portable radio (Li-ion battery: 1 Ah, 3.7 V) with rated power consumption of 0.39 W.	34 hours	2.8 hours
		- .	46 lumens torch, (LiFePO4 battery: 0.5 Ah,		

Available daily electrical energy^c (Wh/day)

Torch

Performance measure	Brightness setting: Super
Lighting full battery run time ^d 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

3.2 V)

not included

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 (Im/W)	CRI ^f	CCT ^g	Distribution type	Lumen maintenance ^h
Main Lamp	1	3	Super	500	150	82	5050	Wide	99%
			Normal			82	5000	Omnidirectional	

^e Lumen efficacy is the power consumption at a light point during the light output test.

^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.

^fColor 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

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		
URABILITY					
Overall durability	and workmanship		Pass		
ourability tests p	passed		Switch test, Drop test, Strain relief test, Physical ingress protection, PV durability tests		
Level of water protection		Main Unit	Has protection from occasional rain; met with appropriate warning label		
		PV module	Has protection from permanent outdoor exposure		
OLAR DETAIL	S				
V module type			Polycrystalline silicon		
PV maximum power			5.7 watts		
MAIN UNIT BAT	TERY DETAILS				
Battery replaceability			Not easily replaceable with common tools.		
attery chemistry	у		Lithium-ion		
Specific Li-ion ba	attery chemistry		lithium nickel manganese cobalt oxide		
Battery package	type		2 X (2 X 18650)		
sattery capacity			4.9 Ah		
attery nominal v	voltage		7.2 V		
Battery status/ other indicator lights			Three indicators for battery state-of-charge		
RODUCT DET	AILS				
lanufacturer na	me		Omnivoltaic Energy Solutions Co. Ltd. / Omnivoltaic (Shenzhen) Co. Ltd.		
roduct name			LUMN L500		
Product model /	ID number		L500		
Contact information			team_sales@omnivoltaic.com		
Website			www.omnivoltaic.com		
Dimensions (entire product in package)			Multiple packages. Contact manufacturer for more information.		
Mass			n/a		
S INFORMATION	ON				
Specs sheet exp	iration date		August 31, 2025		
Revision			2025.04		