

LUMN M600

Omnivoltaic Energy Solutions Co., Ltd.

Results based on test procedures detailed in
Lighting Global Solar Home System Test Method, Ed. 2.0



Available Daily Electrical Energy
(Wh/day)

36

Lumens

650



Meets Lighting Global
Quality Standards



Mobile Charging

PAYG

Pay-As-You-Go

4 Light Points

1 5-volt USB Ports



3 12-volt Ports



Warranty Information

A 2-year warranty covering manufacturing defects.

Performance Details

Appliance ^b	Description	Included with kit?	Power ^b (W)	Run Time After a Typical Day of Solar Charging ^a		
				Used Alone ^c	Used In Combination ^d	Run Time Units
Main lighting	4 light points on totaling 650 lumens	included	3.9	8	6.3	hours
Mobile Phone	Basic phone (3.7 Wh battery)	advertised	--	6	1.8	number of full charges

Available daily electrical energy^d (Wh/day): 36

Performance Measure	Brightness Setting: Main Lamp and 3 Secondary Lamps on Super
Lighting full battery run time ^e (hours)	7.8
Total light output in lumens ^f	650

^a A typical day of solar charging assumes 5 kWh/m²/day

^b Only included appliances were tested. Run times and power ratings for appliances sold separately come from manufacturer ratings or standard estimates.

^c Without any other loads used during the run time

^d Based on an example use profile with all of the appliances listed above used in combination

^e 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.

^f 1 candle or kerosene wick lamp = approximately 10 lumens

Lighting Details

Lamp Name	Type	Number of Settings	Light Output (lm)	Lumen Efficacy (lm/W)	CRI ^g	CCT ^h	Distribution Type	Lumen Maintenance ⁱ
Main Lamp-Super	LED	3	320	160	82	Daylight (> 5000 K)	Wide	>99%
Secondary Lamp- Super	LED	3	110	160	82	Daylight (> 5000 K)	Wide	>99%

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

^h Correlated Color Temperature in degrees Kelvin. Describes color appearance as warm, cool, or daylight.

ⁱ Percent of the original light output that remains after 2,000 hours of run time

Special Features

Mobile charging and appliances	USB and 12 V ports available to charge devices and power appliances
--------------------------------	---

Durability

Overall durability and workmanship	Pass
Durability tests passed	Switch and connector cycling, strain relief test, physical ingress protection test. Main Lamp has protection from occasional rain (Met requirement with a warning label) Water ingress protection not tested for secondary lamp; meant for indoor use only.

Solar Details

PV module type	Polycrystalline silicon
PV maximum power	12 watts

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 show the level of charge of the battery

Marks and Certifications

Factory certification	ISO9001:2008
-----------------------	--------------

Product Details

Manufacturer name	Omnivoltaic Energy Solutions Co., Ltd.
Product name	LUMN M600
Product model / ID number	M600
Contact information	sales@omnivoltaic.com
Website	www.omnivoltaic.com
Dimensions (entire product in package)	components packaged separately
Weight	2150 g

SSS Information

Specs sheet expiration date	August 31, 2020
Quality Standards Framework Version	2018
Revision	2018.08