LUMN M600 Series Solar Light and Phone Charger

M600
Omnivoltaic Energy Solutions Co., Ltd.
Results based on test procedures detailed in

Verify online:

https://data.verasol.org/products/sek/omni-m600
Valid until: May 31 2023



Meets the Lighting Global Solar Home System Kit Quality Standards



Mobile charging



Pay-As-You-Go option available



Light point(s)



Plug-and-play



Run time after a typical day of solar charging

WARRANTY INFORMATION

A 2-year warranty covering manufacturing defects.

PERFORMANCE DETAILS

			(assuming 5kWh/m²/day)		
	Appliance ^a	Description	Used alone ^b	Used in combination ^c	
included in kit	Main Lamp	1 light point on Super totaling 320 lumens and 2 W power	15 hours	4.9 hours	
	Secondary Lamp (3x)	3 light points on Super totaling 300 lumens and 3.3 W power	11 hours	4.9 hours	
ely.	Radio	Portable (Li-ion battery: 0.8 Ah, 3.7 V), with a power consumption of 0.4 W while in-use	64 hours	4.2 hours	
sold separately	Mobile phone	Basic phone (3.7 Wh battery)	8.5 full charge(s)		
des p	Mobile phone	Smart phone (5.7 Wh battery)	5.4 full charge(s)	1.4 full charge(s)	
solcs	Torch (front light on)	33 lumens torch, (LiFePO4 battery: 0.5 Ah, 3.2 V) with a power consumption of 0.3 W while in use	78 hours	5.5 hours	

Available daily electrical energy (Wh/day)^c 35

Performance measure	Brightness setting: Super		
Lighting full battery run time (hours)	6.3		
Lighting full battery run time ^d for main unit (hours)	6.3		
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	4100		

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

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
Main Lamp	1	3	Super	320	160	82	5072	Wide	99%
Secondary Lamp	3	3	Super	110	160	82	5072	Wide	99%

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

^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.

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

⁹ 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

PORTS						
1	USB 2.0 type A		One USB port for charging mobile phones, radio and appliances. Adapters are included.			
3	Barrel jack	-	3 ports for charging and power appliances, these ports are used for light points only.			
DURABILITY						
Overall durability a	ind workmanship		Pass			
Durability tests passed			Switch test, Drop test (PAYG Keypad), Strain relief test, Physical ingress protection.			
·		Main Unit	Has protection from occasional rain; met IPX1			
		12 W PV module	Has protection from permanent outdoor exposure			
		PAYG Keypad	Has protection from occasional rain; met IPX1			
SOLAR DETAILS						
PV module type			Polycrystalline silicon			
PV maximum power	er		12 watts			
MAIN UNIT BATTE	ERY 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.			
PRODUCT DETAI	LS					
Manufacturer name	e		Omnivoltaic Energy Solutions Co., Ltd.			
Product name			LUMN M600 Series Solar Light and Phone Charger			
Product model / ID	number		M600			
Contact information			sales@omnivoltaic.com			
Website			www.omnivoltaic.com			
Dimensions (entire product in package)			Multiple packages. Contact manufacturer for more information.			
Mass			2150 g			
SSS INFORMATION	N					
Specs sheet expiration date			May 31, 2023			
Quality standards framework version			2021			
Revision			2021.01			