

Mushroom Lantern

LM-L-01

Shenzhen LEMI Technology Development Co., Ltd.

Verify online:

<https://data.verasol.org/products/sek/lemi-mushroom>

Valid until: June 30, 2023

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



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



Mobile charging

1

Light point(s)



Plug-and-play



WARRANTY INFORMATION

A 2-year warranty covering manufacturing defects in the system.

PERFORMANCE DETAILS

VeraSol Certified?	Included in Kit?	Appliance ^a	Description	Run time after a typical day of solar charging (assuming 5kWh/m ² /day)	
				Used alone ^b	Used in combination ^c
yes	included	Main lighting unit	1 light point on high totaling 190 lumens and 1.9 W power	5.8 hours	3.3 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	1.9 full charge(s)	0.84 full charge(s)

Available daily electrical energy ^c (Wh/day)	9.8
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Performance measure	Brightness setting: High
Lighting full battery run time ^d for main unit (hours)	9.5
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	1130

^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.

^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 (lm/W)	CRI ^f	CCT ^g	Distribution type	Lumen maintenance ^h
Integrated lamp in main unit	1	3	High	190	100	86	6500	Wide	100%

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

^f Color 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

PORTS		
1	USB 2.0 type A	 Mobile phone can be charged. Adapter included.
DURABILITY		
Overall durability and workmanship		Pass
Durability tests 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.
SOLAR DETAILS		
PV module type		Polycrystalline silicon
PV maximum power		4 watts
MAIN UNIT BATTERY DETAILS		
Battery replaceability		Not easily replaceable with common tools.
Battery chemistry		Lithium iron phosphate
Battery package type		32700 cylindrical cell
Battery capacity		6 Ah
Battery nominal voltage		3.2 V
Battery status indication		Four indicators for battery state of charge and PV charging status
PRODUCT DETAILS		
Manufacturer name		Shenzhen LEMI Technology Development Co., Ltd.
Product name		Mushroom Lantern
Product model / ID number		LM-L-01
Contact information		info@lemi88.com
Website		www.lemi.com.cn
Dimensions (entire product in package)		14.5 x 27 x 13 cm
Mass		1040 g
SSS INFORMATION		
Specs sheet expiration date		June 30, 2023
Quality standards framework version		2021
Revision		2021.06