

# Mushroom Lantern

LM-L-01

Shenzhen LEMI Technology Development Co., Ltd.

Verify online:

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

Valid until: February 29, 2024

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

				Run time after a typical day of solar charging (assuming 5kWh/m <sup>2</sup> /day)	
VeraSol Certified?	Included in Kit?	Appliance <sup>a</sup>	Description	Used alone <sup>b</sup>	Used in combination <sup>c</sup>
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<sup>e</sup> (Wh/day)

9.8

Performance measure	Brightness setting: High
Lighting full battery run time <sup>d</sup> 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

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

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

<sup>a</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

## 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	February 29, 2024
Quality standards framework version	2021
Revision	2024.01