

# Solar Home System

LM-LFP080  
Shenzhen LEMI Technology Development Co., Ltd.  
Results based on test procedures detailed in  
IEC 62257-9-5 v.4

Verify online:  
<https://data.verasol.org/products/sek/lemi-LFP080>  
Valid until: January 31, 2023



Meets the Lighting Global Solar Home System Kit Quality Standards



Mobile charging

4

Light point(s)



Plug-and-play



## WARRANTY INFORMATION

A 36-month warranty covers the whole system from the time of purchase by the end-user.

## PERFORMANCE DETAILS

	Appliance <sup>a</sup>	Description	Run time after a typical day of solar charging (assuming 5kWh/m <sup>2</sup> /day)	
			Used alone <sup>b</sup>	Used in combination <sup>c</sup>
included in kit	Main lighting unit	4 light points on totaling 2200 lumens and 19 W power	16 hours	4.7 hours
sold separately	Mobile phone	Basic phone (3.7 Wh battery)	46 full charge(s)	1.2 full charge(s)
	Television	32" diagonal (20 W power consumption while in-use)	16 hours	2.4 hours
	Radio	integrated battery with a power consumption of 0.29 W while in-use	600 hours	3.6 hours
	Torch	1900 mAh, 56 lumens torch, 3.7 V nominal voltage	240 hours	4.8 hours
	Fan	16" table fan (14 W power)	23 hours	5.9 hours

Available daily electrical energy<sup>c</sup> (Wh/day) 307

Performance measure	Brightness setting: Four LED bulbs on
Lighting full battery run time <sup>d</sup> for main unit (hours)	19
Total lighting service (lumen-hours/solar-day) <i>(includes the both main lighting unit and any auxiliary lights included with the product)</i>	35000

<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>e</sup> (lm/W)	CRI <sup>f</sup>	CCT <sup>g</sup>	Distribution type	Lumen maintenance <sup>h</sup>
LED Bulb	4	1	on	550	120	85	6700	Wide	97%

<sup>e</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

SPECIAL FEATURES		
Handle	 Main box has a handle for easier carrying.	
PORTS		
2	USB 2.0 type A  Mobile phones and radios can be charged. Adapters are not included.	
8	Barrel jack  12 V ports available to charge devices and power appliances. Five of these ports are used for light points only.	
1	Cigarette lighter  Port available to charge devices and power appliances.	
DURABILITY		
Overall durability and workmanship	Pass	
Durability tests passed	Switch test, Strain relief test, physical ingress protection.	
Level of water protection	Main Lighting Unit	Water ingress protection not tested, meant for indoor use only.
	PV module	Has protection from permanent outdoor exposure
SOLAR DETAILS		
PV module type	Polycrystalline silicon	
PV maximum power	79 watts	
BATTERY DETAILS		
Battery replaceability	Easily replaceable with common tools; however, the warranty is void if product is opened.	
Battery chemistry	Lithium iron phosphate	
Battery package type	20650	
Battery capacity	29 Ah	
Battery nominal voltage	12.8 V	
Battery status indication	One indicator for low battery status, one indicator for PV charging and three indicators for battery-state-charge	
PRODUCT DETAILS		
Manufacturer name	Shenzhen LEMI Technology Development Co., Ltd.	
Product name	Solar Home System	
Product model / ID number	LM-LFP080	
Contact information	info@lemi88.com	
Website	www.lemi.com.cn	
Dimensions (entire product in package)	29 x 50 x 20 cm	
Mass	4890 g	
SSS INFORMATION		
Specs sheet expiration date	January 31, 2023	
Quality standards framework version	2020	
Revision	2022.11	