

Solar Home System

LM-LFP100

Shenzhen LEMI Technology Development Co. Ltd.

Verify online:

<https://data.verasol.org/products/sek/lemi-lfp100>

Valid until: April 30, 2025

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 for Size B Kits



Mobile charging

4

Light point(s)



Plug-and-play



WARRANTY INFORMATION

A 3-year warranty covering manufacturing defects in the system and a 1-year warranty for optional appliances and accessories.

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	4 light points (5 W lamps) on "On" totaling 2080 lumens and 18 W power	20 hours	8.2 hours
yes	not included	Torch	56 lumens torch, (Li-ion battery: 1.9 Ah, 3.7 V)	260 hours	8.2 hours
yes	not included	32" television	20 W power consumption while in use	27 hours	4.1 hours
yes	not included	Radio	Portable radio (Li-ion battery: 1 Ah, 3.7 V) with power consumption of 0.5 W while in use	110 hours	6.1 hours
yes	not included	16" pedestal fan	16" pedestal fan (14 W power)	31 hours	10 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	55 full charge(s)	2 full charge(s)

Available daily electrical energy ^e (Wh/day)	350
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Performance measure	Brightness setting: Four 5 W lamps on "On"
Lighting full battery run time ^d for main unit (hours)	24
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	41600

^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
5 W lamp	4	1	On	520	120	84	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

2	USB 2.0 type A		Mobile phones can be charged.
8	Barrel jack		Five 12 V ports available to power lamps and three 12 V ports available to power TV, fans, and other appliances.
1	Cigarette lighter		One 12 V port to power car appliances and other appliances.

DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Strain relief test, Physical ingress protection, PV durability tests
Level of water protection	Main 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		98 watts
MAIN UNIT 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		32700
Battery capacity		35 Ah
Battery nominal voltage		12.8 V
Battery status/ other indicator lights		One indicator for solar charging, three indicators for battery level, and one indicator for load status.
PRODUCT DETAILS		
Manufacturer name		Shenzhen LEMI Technology Development Co. Ltd.
Product name		Solar Home System
Product model / ID number		LM-LFP100
Contact information		21988186@qq.com
Website		http://www.lemi.com.cn/
Dimensions (entire product in package)		Multiple packages. Contact manufacturer for more information.
Mass		Multiple packages. Contact manufacturer for more information.
SSS INFORMATION		
Specs sheet expiration date		April 30, 2025
Revision		2023.04