10 W Solar Home System

LM-LI010
Shenzhen LEMI Technology Development Co., Ltd.

Verify online:
https://data.verasol.org/products/sek/lemi-10W

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

Valid until: July 31, 2023

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

Mobile charging

3   **Light point(s)**

▶ **Plug-and-play**

WARRANTY INFORMATION

A 3-year warranty covering manufacturing defects and faulty components.

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	3 lamps On, totalling 570 lm and 5.4 W	5.4 hours	1.1 hours
yes	not included	Tubelight	lamp 460 lumens, 11.1 V, and 5 W power	6 hours	1.1 hours
yes	not included	Torch	torch 56 lumens (Li-ion battery: 1.9 Ah, 3.6 V)	26 hours	1.2 hours
no	not included	Table Fan	16" or smaller (10 W power)	3 hours	1.4 hours
no	not included	Radio	portable radio (Li-ion battery: 1 Ah, 3.7 V) with rated power consumption of 0.5 W	36 hours	0.87 hours
no	not included	Mobile Phone	Basic phone (3.7 Wh battery)	4.9 full charge(s)	0.29 full charge(s)

Available daily electrical energy[c] (Wh/day)	29

Performance measure	Brightness setting: On
Lighting full battery run time[d] for main unit (hours)	7.1
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	4040

[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]
2 W lamp	3	1	On	190	110	86	6450	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 and radios can be charged. Adapters are included.
4	**Barrel jack**		11.1 V ports are available to power appliances and light points.

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
	2 W lamp	Water ingress protection not tested, meant for indoor use only.

SOLAR DETAILS	
PV module type	Polycrystalline silicon
PV maximum power	10 watts

MAIN UNIT BATTERY DETAILS	
Battery replaceability	Easily replaceable with common tools; however, the warranty is void if product is opened.
Battery chemistry	Lithium-ion
Specific Li-ion battery chemistry	lithium nickel manganese cobalt oxide
Battery package type	18650-3S2P
Battery capacity	4.07 Ah
Battery nominal voltage	11.1 V
Battery status indication	Three indicators for battery status

PRODUCT DETAILS	
Manufacturer name	Shenzhen LEMI Technology Development Co., Ltd.
Product name	10 W Solar Home System
Product model / ID number	LM-LI010
Contact information	info@lemi88.com
Website	http://www.lemi.com.cn/
Dimensions (entire product in package)	39 x 9 x 27 cm
Mass	2740 g

SSS INFORMATION	
Specs sheet expiration date	July 31, 2023
Quality standards framework version	2021
Revision	2021.07