

LM-LI020 Solar Home System

LM-LI020

Shenzhen LEMI Technology Development Co., Ltd.

Verify online:

<https://data.verasol.org/products/sek/lemi-li020>

Valid until: July 31, 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 for Size B Kits



Mobile charging

3

Light point(s)



Plug-and-play



WARRANTY INFORMATION

A 3-year warranty covering manufacturing and early failure defects in the system.

PERFORMANCE DETAILS

				Run time after a typical day of solar charging (assuming 5kWh/m ² /day)	
VeraSol Certified?	Included in Kit?	Appliance ^a	Description	Used alone ^b	Used in combination ^c
yes	included	Main lighting unit	3 lamps On, totaling 570 lm and 5.4 W	12 hours	3.2 hours
yes	not included	Tubelight	lamp 460 lumens, 11.1 V, and 5 W power	13 hours	--
yes	not included	Torch	torch 56 lumens (Li-ion battery: 1.9 Ah, 3.6 V)	55 hours	--
no	not included	Table fan	16" or smaller (10 W power)	6.5 hours	4 hours
no	not included	Radio	portable radio (Li-ion battery: 1 Ah, 3.7 V) with rated power consumption of 0.5 W	78 hours	2.4 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	11 full charge(s)	0.8 full charge(s)

Available daily electrical energy ^c (Wh/day)	62
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Performance measure	Brightness setting: Three lights on
Lighting full battery run time ^d for main unit (hours)	13
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	6840

^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 bulb	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

SPECIAL FEATURES		
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		19 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
Battery capacity		7.25 Ah
Battery nominal voltage		11.1 V
Battery status indication		Three battery capacity indicators that show 90%, 60%, and 30% battery capacity.
PRODUCT DETAILS		
Manufacturer name		Shenzhen LEMI Technology Development Co., Ltd.
Product name		LM-LI020 Solar Home System
Product model / ID number		LM-LI020
Contact information		21988186@qq.com
Website		http://www.lemi.com.cn/
Dimensions (entire product in package)		24.5 x 29 x 8.8 cm
Mass		1950 g
SSS INFORMATION		
Specs sheet expiration date		July 31, 2023
Revision		2021.08