

80W Smart Solar Home System

LM-SHSBL080

Shenzhen LEMI Technology Development Co., Ltd

Verify online:

<https://data.verasol.org/products/sek/lemi-L080>

Valid until: 07/31/2024

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 for Size B Kits



Mobile charging

PAYG

Pay-As-You-Go option available

6

Light point(s)



Plug-and-play



WARRANTY INFORMATION

All LEMI Solar Products are protected by a 36-month warranty from the date of purchase. The warranty covers product failure from defective workmanship and faulty components 36-month from the date of purchase.

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	6 light points (4 LED Bulbs and 2 LED Tubes) on totalling 2500 lumens and 21W of power	11 hours	4.5 hours
yes	not included	Torch	56 lumens portable lantern, Li-ion battery: 1.9 Ah, 3.7 V)	210 hours	-- hours
yes	not included	Radio	portable Li-ion battery: 1.9 Ah, 3.7 V, with a power consumption of 0.3 W while in-use	520 hours	3.5 hours
yes	not included	Television	32" diagonal (20 W power consumption while in-use)	11 hours	2.3 hours
yes	not included	16" Fan	16" table fan (14 W power)	16 hours	5.7 hours
no	not included	Tablet	Tablet Computer (15Wh battery)	9.5 hours	-- hours
no	not included	Hair clipper	Hair clipper (10 Wh battery)	30 hours	-- hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	41 full charge(s)	1.2 full charge(s)

Available daily electrical energy ^c (Wh/day)	228
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Performance measure	Brightness setting: 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)	27000

^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
LED Bulb	4	1	On	350	120	84	7000	Wide	100%
LED Tube	2	1	On	540	110	83	6200	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		
Individual switch	★ The LED bulb and LED tubelight both have individual switches.	
PORTS		
2	USB 2.0 type A  The are two USB ports for mobile charging. No adapters are included.	
8	Barrel jack  There are six barrel LED light ports and two other barrel ports for other advertised appliances.	
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	Water ingress protection not tested, meant for indoor use only.
	PV module	Has protection from permanent outdoor exposure
SOLAR DETAILS		
PV module type	Monocrystalline silicon	
PV maximum power	74 watts	
MAIN UNIT BATTERY DETAILS		
Battery replaceability	Not easily replaceable with common tools.	
Battery chemistry	Lithium iron phosphate	
Specific Li-ion battery chemistry	lithium iron phosphate	
Battery package type	32700	
Battery capacity	23.5 Ah	
Battery nominal voltage	12.8 V	
Battery status/ other indicator lights	The LCD screen displays battery power, GSM and GPS signa strength, system working status, available days, PV charging power, output power, voltage and current.	
PRODUCT DETAILS		
Manufacturer name	Shenzhen LEMI Technology Development Co., Ltd	
Product name	80W Smart Solar Home System	
Product model / ID number	LM-SHSBL080	
Contact information	info@lemi88.com	
Website	http://www.lemi.com.cn/	
Dimensions (entire product in package)	29.6 x 21.4 x 13.4 cm	
Mass	3860 g	
SSS INFORMATION		
Specs sheet expiration date	07/31/2024	
Revision	2022.08	