

Solar 10 W Home System

LM-Soalight 3210
Brand name: LEMI

Results based on test procedures detailed in IEC TS 62257-9-5:2024

Verify online:

<https://data.verasol.org/products/sek/sc-lmsl3210>

Valid until: October 31, 2028



Meets the Requirements in
IEC TS 62257-9-8:2025 for Size A kits

Mobile charging

2

Light point(s)



Plug-and-play



WARRANTY INFORMATION

A 2-year warranty covering manufacturing 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	2 light points on "High" totaling 990 lumens and 4 W power while in use	6.3 hours	5.1 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	5.8 full charge(s)	1.3 full charge(s)
no	not included	Torch	Basic torch (2 Wh battery) with a power consumption of 0.3 W while in use	72 hours	not calculated
no	not included	Radio	Portable radio (Li-ion battery: 1 Ah, 3.7 V) with power consumption of 0.5 W while in use	5.8 hours	3.9 hours

Available daily electrical energy [Wh/day]

29

Performance measure

Brightness setting:
2 W dimming lamp on "High"
3 W dimming lamp on "High"

Lighting full battery run time for main unit [hours]

6.3

^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 name	Light output [lm]	Power Consumption [W]	Lumen efficacy ^e [lm/W]	CRI ^f	CCT ^g	Lumen maintenance ^h
3 W dimming bulb	1	3	High	610	2.5	250	71	6600	100
2 W dimming bulb	1	3	High	380	1.5	250	72	6500	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 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			
1	USB 2.0 type A		Mobile phones, torches, and radios can be charged. Adapters are included.
2	Barrel jack		8 V ports available to power 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	Permanent rooftop installation for PV modules

SOLAR DETAILS	
PV Module Type	Monocrystalline silicon
PV Maximum Power	10 W
PV Rated Power	10 W
PV Open-Circuit Voltage (V_{OC})	6.7 V

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	26700
Battery Capacity (tested)	9.3 Ah
Battery Capacity (rated)	8 Ah
Battery Nominal Voltage	3.2 V
Battery status / other indicator lights	One indicator for PV charging, three indicators for battery level, and one load indicator.

PRODUCT DETAILS	
Company Name (full)	ShenZhen LEMI Technology Development Co., Ltd.
Company Name ("brand")	LEMI
Product Name	Solar 10 W Home System
Product Model or ID Number	LM-Soalight 3210
Company Contact Information	21988186@qq.com
Company Website	http://www.lemi.com.cn/
Mass	n/a

SSS INFORMATION	
Expiration Date	October 31, 2028
Revision	2025.11