

# Solar Media Home Lighting System

SR77B

Shenzhen Power-Solution Ind Co., Ltd.

Verify online:

<https://data.verasol.org/products/sek/sps-77b>

Valid until: October 31, 2022

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



Meets the Lighting Global Solar Home System Kit Quality Standards



Mobile charging

3

Light point(s)



Plug-and-play



## WARRANTY INFORMATION

There is a "2 years warranty". The warranty is void for normal wear and tear, and is void for the defects caused by abnormal use, rough handling and misuse of product. There is a 1 year warranty for the optional home appliances.

## PERFORMANCE DETAILS

VeraSol Certified?	Included in Kit?	Appliance <sup>a</sup>	Description	Run time after a typical day of solar charging (assuming 5kWh/m <sup>2</sup> /day)	
				Used alone <sup>b</sup>	Used in combination <sup>c</sup>
yes	included	Main lighting unit	3 light points on (On) totaling 850 lumens and 7.2 W power	6.9 hours	5.6 hours
yes	included	Video Display	7" integrated video display with a power consumption of 1.6 W while in use on the highest volume	37 hours	3.1 hours
no	not included	Mobile Phone	Basic phone (3.7 Wh battery)	10 full charge(s)	1.7 full charge(s)

Available daily electrical energy<sup>c</sup> (Wh/day)

53

Performance measure	Brightness setting: On
Lighting full battery run time <sup>d</sup> for main unit (hours)	6.9
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	5900

<sup>a</sup> Only included appliances were tested. Run times and power ratings for appliances sold separately come from manufacturer ratings or standard estimates.

<sup>b</sup> Without any other loads used during the run time

<sup>c</sup> Based on an example use profile with all of the appliances listed in the "Used in combination" column used simultaneously.

<sup>d</sup> 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 <sup>e</sup> (lm/W)	CRI <sup>f</sup>	CCT <sup>g</sup>	Distribution type	Lumen maintenance <sup>h</sup>
LED bulb	3	1	On	280	120	75	7200	Wide	100%

<sup>e</sup> Lumen efficacy is the power consumption at a light point during the light output test.

<sup>f</sup> Color Rendering Index. An index of 100 is equivalent to viewing objects in daylight; above 80 is considered good.

<sup>g</sup> Correlated Color Temperature in degrees Kelvin. Describes color appearance as warm (2700-3000 K), cool (3000-5000 K), or daylight (>5000 K)

<sup>h</sup> Percent of the original light output that remains after 2,000 hours of run time

SPECIAL FEATURES		
Data transmit and charging port 	The control box contains an USB port which allows data transmit and phone charging.	
PORTS		
2	USB 2.0 type A  One USB output port for phone charging and one USB output port for data transmit.	
3	Barrel jack  Three 12 V output ports for LED bulbs.	
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.
	LED bulb	Water ingress protection not tested, meant for indoor use only.
	Remote control	Water ingress protection not tested, meant for indoor use only.
SOLAR DETAILS		
PV module type	Polycrystalline silicon	
PV maximum power	20 watts	
MAIN UNIT BATTERY DETAILS		
Battery replaceability	Easily replaceable with common tools.	
Battery chemistry	Lithium iron phosphate	
Battery capacity	6 Ah	
Battery nominal voltage	12.8 V	
Battery status indication	One LED for remote control receiver and four LEDs for showing battery status and working status	
MARKS AND CERTIFICATIONS		
Factory certification	ISO 9001; ISO 45001; ISO14001	
PRODUCT DETAILS		
Manufacturer name	Shenzhen Power-Solution Ind Co., Ltd.	
Product name	Solar Media Home Lighting System	
Product model / ID number	SR77B	
Contact information	susan@power-solution.net.cn	
Website	<a href="https://www.power-solution.net.cn/">https://www.power-solution.net.cn/</a>	
Dimensions (entire product in package)	25 x 35 x 9 cm	
Mass	1830 g	
SSS INFORMATION		
Specs sheet expiration date	October 31, 2022	
Quality standards framework version	2021	
Revision	2021.09	