

# Solar Media Home Lighting System

SR77A  
Solar Run Energy Co.,Ltd

Verify online:  
<https://data.verasol.org/products/sek/ssr-77a>  
Valid until: July 31, 2023

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



Meets the Lighting Global Pico-PV 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 490 lumens and 4.5 W power	5.1 hours	3.3 hours
yes	included	Video Display	7" integrated video display with a power consumption of 1.6 W while in use on the highest volume	16 hours	1.9 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	4.8 full charge(s)	1.1 full charge(s)

Available daily electrical energy<sup>c</sup> (Wh/day) 23

Performance measure	Brightness setting: On
Lighting full battery run time <sup>d</sup> for main unit (hours)	5.3
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	1620

<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)	CR <sup>f</sup>	CCT <sup>g</sup>	Distribution type	Lumen maintenance <sup>h</sup>
LED bulb	3	1	On	170	95	74	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 6 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 Controller	Water ingress protection not tested, meant for indoor use only.
<b>SOLAR DETAILS</b>		
PV module type		Polycrystalline silicon
PV maximum power		10 watts
<b>MAIN UNIT BATTERY DETAILS</b>		
Battery replaceability		Easily replaceable with common tools.
Battery chemistry		Lithium iron phosphate
Battery capacity		5.9 Ah
Battery nominal voltage		6.4 V
Battery status indication		One LED for remote control receiver and four LEDs for showing battery status and working status
<b>MARKS AND CERTIFICATIONS</b>		
Factory certification		ISO 9001; ISO 45001; ISO14001
<b>PRODUCT DETAILS</b>		
Manufacturer name		Solar Run Energy Co.,Ltd
Product name		Solar Media Home Lighting System
Product model / ID number		SR77A
Contact information		info@solarunoffgrid.com
Website		www.solarunoffgrid.com
Dimensions (entire product in package)		25 x 35 x 9 cm
Mass		2480 g
<b>SSS INFORMATION</b>		
Specs sheet expiration date		July 31, 2023
Quality standards framework version		2021
Revision		2023.01