

Solar Home Lighting System

SR06A31XY

Brand name: Solar Run

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

Verify online:

<https://data.verasol.org/products/sek/ssr-sr06>

Valid until: December 31, 2026



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

Mobile charging

4 Light point(s)

Plug-and-play



WARRANTY INFORMATION

2-year warranty covering manufacturing defects in the system and a 1-year warranty for the radio.

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 light points on "on" totaling 380 lumens and 2.1 W power	16 hours	3.2 hours
yes	included	Torch	56 lm torch (LiFePO4 battery: 0.4 Ah, 3.2 V)	11 hours	3.1 hours
yes	included	Radio	Portable radio (Li-ion battery: 1.9 Ah, 3.7 V), with a power consumption of 0.44 W while in use	79 hours	2.4 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	6.7 full charge(s)	0.8 full charge(s)
no	not included	Fan	USB fan (3 W power while in use)	11 hours	4 hours

Available daily electrical energy [Wh/day]	26
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Performance measure	Brightness setting: 3 lights on "on" and one torch on "torch"
Lighting full battery run time for main unit [hours]	17
Lighting full battery run time of the torch powered by torch battery (hours)	2.5
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	6700

^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
1 W bulb	3	1	on	130	0.7	180	79	6350	96% at 1,000 h
Torch	1	2	torch	56	0.61	92	72	7450	98% at 2,000 h

^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 1,000 hours or 2,000 hours of run time (depending on test procedure used).

PORTS		
1	USB 2.0 type A	 Mobile phones, torches, and radios can be charged. Adapters are included.
4	Barrel jack	 12 V ports available to power light points.
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	Permanent rooftop installation for PV modules
	1 W bulb	Water ingress protection not tested, meant for indoor use only.
	Torch	Has protection from frequent rain; met IPX3
	Radio	Has protection from frequent rain; met with IPX1 and an appropriate warning label
SOLAR DETAILS		
PV Module Type		Monocrystalline silicon
PV Maximum Power		10 W
PV Rated Power		10 W
PV Open-Circuit Voltage (V_{oc})		12.6 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		32700
Battery Capacity (tested)		6 Ah
Battery Capacity (rated)		6.2 Ah
Battery Nominal Voltage		6.4 V
Battery status / other indicator lights		Four LEDs indicate battery level
PRODUCT DETAILS		
Company Name (full)		Shenzhen Solar Run Energy Co., Ltd.
Company Name ("brand")		Solar Run
Product Name		Solar Home Lighting System
Product Model or ID Number		SR06A31XY
Company Contact Information		eng@solarunoffgrid.com
Company Website		www.solarunoffgrid.com
Mass		n/a
SSS INFORMATION		
Expiration Date		December 31, 2026
Revision		2025.09