

Solar Home Lighting System

SR06A31XY

Shenzhen Solar Run Energy Co. LTD

Verify online:

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

Valid until: April 30, 2025

Results based on test procedures detailed in IEC TS 62257-9-5 and IEC TS 62257-9-8



Meets the requirements in IEC TS 62257-9-8:2020 for Size A Kits



Mobile charging

3

Light point(s)



Plug-and-play



WARRANTY INFORMATION

A 3-year warranty covering manufacturing defects in the system including the torch. A 1-year warranty for the charge cable and radio.

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	3 light points On totaling 430 lm and 3.3 W	9.6 hours	2.4 hours
yes	included	Torch	59 lumens torch, (LiFePO4 battery:0.5 Ah, 3.2V)	8.8 hours	2.4 hours
yes	included	Radio	portable (Li-ion battery: 2 Ah, 3.7 V), with a power consumption of .33 W while in-use	72 hours	1.8 hours
no	not included	USB fan	USB powered fan (3W)	10 hours	3 hours
no	not included	Mobile Phone	Smart Phone (5.7 Wh battery)	3.9 full charge(s)	0.61 full charge(s)
no	not included	Mobile Phone	Basic Phone (3.7 Wh battery)	6.2 full charge(s)	--

Available daily electrical energy ^c (Wh/day)	23
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Performance measure	Brightness setting: On
Lighting full battery run time ^d for main unit (hours)	11
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	2250

^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	3	1	On	140	130	83	6639	Wide	99%
Torch	1	2	torch light	59	100	73	6523	Narrow	97%

^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

PORTS		
1	USB 2.0 type A	 Mobile phones can be charged. Adapters are included.
4	Barrel jack	 4 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	Has protection from permanent outdoor exposure
SOLAR DETAILS		
PV module type		Polycrystalline silicon
PV maximum power		10 watts
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
Specific Li-ion battery chemistry		lithium iron phosphate
Battery package type		2 x 32650
Battery capacity		6.2 Ah
Battery nominal voltage		6.4 V
Battery status indication		Four green LEDs indicate battery state of charge
PRODUCT DETAILS		
Manufacturer name		Shenzhen Solar Run Energy Co. LTD
Product name		Solar Home Lighting System
Product model / ID number		SR06A31XY
Contact information		info@solarunoffgrid.com
Website		www.solarunoffgrid.com
Dimensions (entire product in package)		35 x 25 x 6.5 cm
Mass		2345 g
SSS INFORMATION		
Specs sheet expiration date		April 30, 2025
Revision		2023.06