

# Solar Home System

SR16B32XY

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-sr16>

Valid until: June 30, 2028



Meets the Requirements in  
IEC TS 62257-9-5:2025 for Size B kits

4

Mobile charging

Light point(s)



Plug-and-play



## WARRANTY INFORMATION

A 2-year warranty covering the PV module, main unit, lights, and torch. A 1-year warranty covering the charging cables and radio

## PERFORMANCE DETAILS

				Run time after a typical day of solar charging (assuming 5kWh/m <sup>2</sup> /day)	
VeraSol Certified?	Included in kit?	Appliance <sup>a</sup>	Description	Used alone <sup>b</sup>	Used in combination <sup>c</sup>
yes	included	Main lighting unit	3 light points on on totaling 730 lumens and 4.2 W power	7.8 hours	6 hours
yes	included	Torch	61 lm torch (Li-ion battery: 0.5 Ah, 3.2 V)	58 hours	6 hours
yes	included	Radio	Portable radio (Li-ion battery: 1.9 Ah, 3.7 V), with a power consumption of 0.31 W while in use	98 hours	4.5 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	7.8 full charge(s)	1.5 full charge(s)

Available daily electrical energy [Wh/day]	38
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Performance measure	Brightness setting: on
Lighting full battery run time for main unit [hours]	7.8
Lighting full battery run time of the torch powered by torch battery (hours)	3.2
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	5990

<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 name	Light output [lm]	Power Consumption [W]	Lumen efficacy <sup>e</sup> [lm/W]	CRI <sup>f</sup>	CCT <sup>g</sup>	Lumen maintenance <sup>h</sup>
2 W lamp	3	1	on	240	1.4	170	81	6100	101
Torch	1	1	on	61	0.54	110	73	7500	99

<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 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.

PORTS		
1	USB 2.0 type A	 <p>Mobile phones and radios can be charged. Adapters are included.</p>
4	Barrel jack	 <p>6 V ports available to charge devices and power appliances and light points.</p>
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
SOLAR DETAILS		
PV Module Type		Monocrystalline silicon
PV Maximum Power		12 W
PV Rated Power		12 W
PV Rated Open-Circuit Voltage ( $V_{OC}$ )		12.5 V
MAIN UNIT BATTERY DETAILS		
Battery Replaceability		Easily replaceable with common tools.
Battery Chemistry		Lithium iron phosphate
Battery Package Type		32700
Battery Capacity (tested)		6 Ah
Battery Capacity (rated)		6 Ah
Battery Nominal Voltage		6.4 V
Battery status / other indicator lights		Four indicators for battery level, one indicator for charging.
PRODUCT DETAILS		
Company Name (full)		Shenzhen Solar Run Energy Co., Ltd.
Company Name ("brand")		Solar Run
Product Name		Solar Home System
Product Model or ID Number		SR16B32XY
Company Contact Information		eng@solarrunoffgrid.com
Company Website		www.solarrunoffgrid.com
Mass		n/a
SSS INFORMATION		
Expiration Date		June 30, 2028
Revision		2025.11