

# Mbox Solar Home System

SR32B132YTZG

Brand name: Solar Run

Verify online:

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

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

Valid until: January 31, 2026



Meets the Requirements in IEC TS 62257-9-8:2020 for Size B kits



Mobile charging

PAYG

Pay-As-You-Go option available

4

Light point(s)



Plug-and-play



## WARRANTY INFORMATION

2-year warranty covering manufacturing defects in the system for the main unit, bulbs, Torch, and TV and a 1 year warranty for the 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 high totaling 1110 lumens and 7.2 W power	38 hours	9.7 hours
yes	included	Solar Torch	59 lm torch (LiFePO4 battery: 0.52 Ah, 3.2 V)	86 hours	9.5 hours
yes	included	Radio	Portable radio (Li-ion battery: 1.2 Ah, 3.7 V), with a power consumption of 0.44 W while in use	730 hours	7.6 hours
yes	included	Television	24" diagonal television (8.7 W power consumption while in use)	35 hours	5 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	51 full charge(s)	2.5 full charge(s)
no	not included	Fan	Standing (16" or smaller diameter, 10 W power)	28 hours	12 hours
no	not included	Tubelight	tube-shaped lamp (5 W while in use)	56 hours	--

Available daily electrical energy <sup>c</sup> (Wh/day)	250
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Performance measure	Brightness setting: high
Lighting full battery run time <sup>d</sup> for main unit (hours)	40
Lighting full battery run time of the Solar Torch powered by Solar Torch battery (hours)	3.5
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	46100

<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)	Power consumption (W)	Lumen efficacy <sup>e</sup> (lm/W)	CRI <sup>f</sup>	CCT <sup>g</sup>	Distribution type	Lumen maintenance <sup>h</sup>
3 W LED lamp	3	2	high	370	2.4	150	82	6700	Wide	100%
			low	Not Tested	0.79	Not Tested	Not Tested	Not Tested		
Solar Torch	1	2	torch	59	0.59	100	73	6500	Narrow	97%

<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

PORTS		
2	USB 2.0 type A	 Mobile phones and radios can be charged. Adapters are included.
6	Barrel jack	 12 V ports available to power light points.
2	Barrel jack	 12 V ports available to power appliances.
DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Drop test (TV remote, Torch and Radio), 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
	3 W LED lamp	Water ingress protection not tested, meant for indoor use only.
	Torch	Has protection from frequent rain; met IPX3
	24" TV and remote	Water ingress protection not tested, meant for indoor use only.
	Radio	Has protection from occasional rain; met with appropriate warning label
SOLAR DETAILS		
PV module type		Monocrystalline silicon
PV maximum power		80 watts
PV rated power		80 watts
PV nominal voltage		18 volts
MAIN UNIT BATTERY DETAILS		
Battery replaceability		Not easily replaceable with common tools.
Battery chemistry		Lithium iron phosphate
Battery package type		32700
Battery capacity		24 Ah
Battery nominal voltage		12.8 V
Battery status/ other indicator lights		LCD display shows the battery state of charge
PRODUCT DETAILS		
Company name		Shenzhen Solar Run Energy Co., Ltd
Brand Name		Solar Run
Product name		Mbox Solar Home System
Product model / ID number		SR32B132YTZG
Contact information		info@solarunoffgrid.com
Website		www.solarunoffgrid.com
Dimensions (entire product in package)		Multiple packages. Contact manufacturer for more information.
Mass		n/a
SSS INFORMATION		
Specs sheet expiration date		January 31, 2026
Revision		2025.03