

Mbox Solar Home System

SR32B33

Shenzhen Solar Run Energy Co., Ltd

Verify online:

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

Valid until: August 31, 2024

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



Meets the Lighting Global Solar Home System Kit Quality Standards



Mobile charging

PAYG

Pay-As-You-Go option available

5

Light point(s)



Plug-and-play



WARRANTY INFORMATION

There is a 2-year warranty for the main units, lamps, TVs and torch, and a 1-year warranty for the radio, fan and other accessories.

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	4 light points on "On" totaling x 1100 lumens and 9.6 W power	29 hours	10 hours
yes	included	Torch	46 lumens torch, LiFePO4 battery: 600 mAh, 3.2 V	350 hours	11 hours
yes	included	Television	24" diagonal (8.7 W power consumption while in-use)	35 hours	5.2 hours
yes	included	Radio	Portable (LiFePO4 battery: 1850 mAh, 3.7 V), with a power consumption of 0.44 W while in-use	440 hours	7.9 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	55 full charge(s)	2.6 full charge(s)
no	not included	Fan	16" fan (10 W power)	30 hours	13 hours

Available daily electrical energy^c (Wh/day)

290

Performance measure	Brightness setting: On
Lighting full battery run time ^d for main unit (hours)	29
Lighting full battery run time of the torch powered by 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)	33500

^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
3 W LED Lamp	4	1	On	280	110	78	7700	Wide	100%
Solar Torch with Integrated PV	1	1	Front light	46	100	72	6500	Narrow	100%

^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		
2	USB 2.0 type A	 Mobile phones and radios can be charged. Adapters are included.
8	Barrel jack	 12 V ports available to charge devices and power appliances and 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
	Torch	Has protection from frequent rain; met IPX1
	Radio	Water ingress protection not tested, meant for indoor use only.
	Television	Water ingress protection not tested, meant for indoor use only.
SOLAR DETAILS		
PV module type		Polycrystalline silicon
PV maximum power		80 watts
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 indication		One LCD display screen shows solar panel informations, battery informations, and working status
MARKS AND CERTIFICATIONS		
Factory certification		ISO 9001; ISO 45001; ISO14001
PRODUCT DETAILS		
Manufacturer name		Shenzhen Solar Run Energy Co., Ltd
Product name		Mbox Solar Home System
Product model / ID number		SR32B33
Contact information		info@solarunoffgrid.com
Website		www.solarunoffgrid.com
Dimensions (entire product in package)		36 x 26 x 19 cm
Mass		5480 g
SSS INFORMATION		
Specs sheet expiration date		August 31, 2024
Quality standards framework version		2021
Revision		2024.04