Mbox Solar Home System

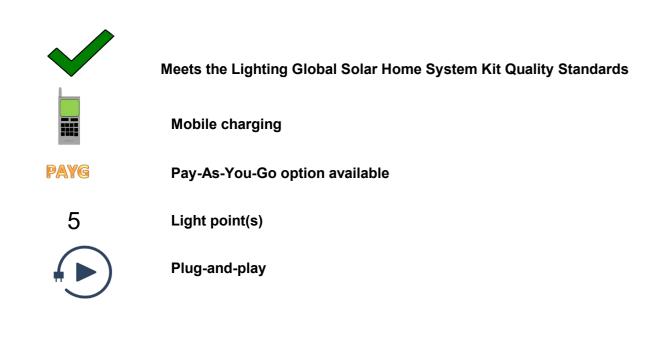
SR32B33

Shenzhen Solar Run Energy Co., Ltd

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

Verify online:

https://data.verasol.org/products/sek/ssr-mbox Valid until: August 31, 2024





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

		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	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

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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 (Im)	Lumen efficacy ^e (Im/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.

^fColor 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				
		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 BATTER	Y DETAILS						
Battery replaceability			Not easily replaceable with common tools.				
Battery chemistry			Lithium iron phosphate				
Battery package type			32700				
Battery capacity			24 Ah				
Battery nominal volta	ge		12.8 V				
Battery status indication			One LCD display screen shows solar panel informations, battery informations, and working status				
MARKS AND CERTI	FICATIONS						
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				