Solar Television System

Mobisol

Results based on test procedures detailed in
Lighting Global Solar Home System Test Method, Ed. 2.0

Verify online:
www.lightingglobal.org/products/mb-sts

Valid Until: June 30, 2020

Available Daily Electrical Energy (Wh/day)

98

Lumens

1200

Meets Lighting Global Quality Standards

Mobile Charging

PAYG **Pay-As-You-Go Option Available**

6 **Light Points**

2 **5-volt USB Ports**

2 **12-volt Ports**

Warranty Information

Two or three years for the main unit with TV, lights and TV antenna, one year for the phone charging cables.

Performance Details

				Run Time After a Typical Day of Solar Charging[a]		
Appliance[b]	**Description**	**Included with kit?**	**Power[b] (W)**	**Used Alone[c]**	**Used In Combination[d]**	**Run Time Units**
Main lighting	6 light points on totaling 1200 lumens	included	10.2	8.1	5.2	hours
Television	22" diagonal	included	13.6	8.6	2.9	hours
Mobile Phone	Basic phone (3.7 Wh battery)	advertised	--	27	1.6	number of full charges

Available daily electrical energy[d] (Wh/day): 98

Performance Measure	Brightness Setting: Six lamps on high
Lighting full battery run time[e] (hours)	7.9
Total light output in lumens[f]	1200

[a] A typical day of solar charging assumes 5 kWh/m^2/day

[b] Only included appliances were tested. Run times and power ratings for appliances sold separately come from manufacturer ratings or standard estimates. Television offers 3 different brightness modes rated at 8.5 W, 11 W and 15.5 W (tested 6.6 W, 9.0 W and 13.6 W).

[c] Without any other loads used during the run time

[d] Based on an example use profile with all of the appliances listed above used in combination

[e] 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.

[f] 1 candle or kerosene wick lamp = approximately 10 lumens

Lighting Details

Lamp Name	Type	Number of Settings	Light Output (lm)	Lumen Efficacy (lm/W)	CRI[g]	CCT[h]	Distribution Type	Lumen Maintenance[i]
Power Saving Solar Light	LED	3	200	102	71	Cool (3000-5000 K)	Wide	>94%

[g] Color Rendering Index. An index of 100 is equivalent to vieiwing objects in daylight; above 80 is considered good.

[h] Correlated Color Temperature in degrees Kelvin. Describes color appearance as warm, cool, or daylight.

[i] Percent of the original light output that remains after 2,000 hours of run time

Special Features	
Mobile charging and appliances	USB and 12 V ports available to charge devices and power appliances
Pay-as-you-go	Smart technology for PAYG payments, automated loan accounting and SHS monitoring

Durability	
Overall durability and workmanship	Pass
Durability tests passed	Switch and connector cycling, strain relief test, physical ingress protection test. Water ingress protection not tested; meant for indoor use only.

Solar Details	
PV module type	Polycrystalline silicon
PV maximum power	40 watts

Battery Details	
Battery replaceability	Easily replaceable with common tools
Battery chemistry	Lithium iron phosphate
Battery package type	2P4S
Battery capacity	6.4 Ah
Battery nominal voltage	12.8 V
Battery Status Indication	One LED indicates the battery status. If TV is switched on, an additional battery charging status indicator is on the screen.

Marks and Certifications	
Factory certification	IS0 9001, ISO 14001
Other certification	PV Panel tested in accordance with IEC 61215; Battery: IEC 61960; STS: IEC 60065

Product Details	
Manufacturer name	Mobisol
Product name	Solar Television System
Product model / ID number	Solar Home Integrated System 40W-22"
Contact information	communications@plugintheworld.com
Website	www.plugintheworld.com
Dimensions (entire product in package)	Components packaged separately
Weight	7770 g

SSS Information	
Specs sheet expiration date	June 30, 2020
Quality Standards Framework Version	2018
Revision	2018.06