

# Azuri 50W TV120 Solar Home System

Azuri Technologies, Ltd.

Verify online:

[www.lightingglobal.org/products/az-50w](http://www.lightingglobal.org/products/az-50w)

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

Valid Until: March 31, 2020



## Available Daily Electrical Energy (Wh/day)

89\*

## Lumens

610



Meets Lighting Global  
Quality Standards



Mobile Charging

**PAYG**

Pay-As-You-Go

4 Light Points with 12-volt ports

2 5-volt USB Ports 

2 12-volt Accessory Ports 

## Warranty Information

A 2-year warranty for the system and a minimum of a 1 year warranty on the TV and radio

## Performance Details

Appliance <sup>b</sup>	Description	Included with kit?	Power <sup>b</sup> (W)	Run Time After a Typical Day of Solar Charging <sup>a</sup>		
				Used Alone <sup>c</sup>	Used In Combination <sup>d</sup>	Run Time Units
Main lighting	4 light points on totaling 610 lumens	included	4.0	19	7.9	hours
Television	23.6" diagonal	included	10.8	8.2	4.0	hours
Radio	portable (3.15 Wh battery)	included	--	170	5.9	hours
Mobile Phone	Basic phone (3.7 Wh battery)	advertised	--	19	2.0	number of full charges

Available daily electrical energy<sup>d</sup> (Wh/day): 89\* \*Additional energy may be available for daytime use of appliances

Performance Measure	Brightness Setting: Four lamps on brightest light
Lighting full battery run time <sup>e</sup> (hours)	19
Total light output in lumens <sup>f</sup>	610

<sup>a</sup> A typical day of solar charging assumes 5 kWh/m<sup>2</sup>/day

<sup>b</sup> Only included appliances were tested. Run times and power ratings for appliances sold separately come from manufacturer ratings or standard estimates.

<sup>c</sup> Without any other loads used during the run time

<sup>d</sup> Based on an example use profile with all of the appliances listed above used in combination

<sup>e</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.

<sup>f</sup> 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 <sup>g</sup>	CCT <sup>h</sup>	Distribution Type	Lumen Maintenance <sup>i</sup>
LED lamp	LED	3	150	150	71	Cool (3000-5000 K)	Wide	>99%

<sup>g</sup> Color Rendering Index. An index of 100 is equivalent to viewing objects in daylight; above 80 is considered good.

<sup>h</sup> Correlated Color Temperature in degrees Kelvin. Describes color appearance as warm, daylight, or cool.

<sup>i</sup> 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
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**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	51 watts

**Battery Details**

Battery replaceability	Not easily replaceable with common tools
Battery chemistry	Lithium iron phosphate
Battery package type	22650 x 2P x 4S
Battery capacity	6.7 Ah
Battery nominal voltage	12.8 V
Battery Status Indication	LCD with Battery State of Charge and Run-Time displays; four LED function indicators; warning/alert LED

**Marks and Certifications**

Factory certification	ISO 9001:2008 (PV module, Radio, TV, Torch); ISO 9001:2015 (Control Unit, Lights); ISO 14001:2004 (PV Module); ISO 14001:2015 (Control Unit, Lights); ISO18001:2007 (PV Module)
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**Product Details**

Manufacturer name	Azuri Technologies, Ltd.
Product name	Azuri 50W TV120 Solar Home System
Product model / ID number	AZ-002151 (kit) comprising: AZ001705 (PV Module); AZ001866 (Control Unit and Lighting Kit); AZ001799 (Radio); AZ001735 (TV)
Contact information	info@azuri-technologies.com
Website	www.azuri-technologies.com
Dimensions (entire product in package)	Components packaged separately
Weight	5630 g

**SSS Information**

Specs sheet expiration date	March 31, 2020
Quality Standards Framework Version	2018
Revision	2018.03