

# 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: October 31, 2020



## Available Daily Electrical Energy (Wh/day)

89\*

Lumens

710



Meets Lighting Global Quality Standards



Mobile Charging

PAYG

Pay-As-You-Go

5 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, radio, and torch

## 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	7.0	hours
Torch	torch (7.5 Wh battery)	included	1.1	58	7.0	hours
Television	23.6" diagonal	included	10.8	8.2	3.5	hours
Radio	portable (3.15 Wh battery)	included	--	170	5.2	hours
Mobile Phone	Basic phone (3.7 Wh battery)	advertised	--	19	1.7	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%
Torch	LED	2	96	103	71	Daylight (> 5000 K)	Narrow	>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	Drop test (required for radio and torch only), switch and connector cycling, strain relief test, physical ingress protection test. Water ingress protection not tested for main unit or TV; meant for indoor use only. Radio has protection from occasional rain, met with a warning label. Torch has protection from frequent rain, met IP53.

**Solar Details**

PV module type	Polycrystalline silicon
PV maximum power	51 watts

**Battery Details (Main Unit)**

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); AZ001735 (TV); AZ002370 (Torch); AZ001799 (radio)
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	October 31, 2020
Quality Standards Framework Version	2018

