**Performance Details**

<table>
<thead>
<tr>
<th>Appliance</th>
<th>Description</th>
<th>Included with kit?</th>
<th>Power (W)</th>
<th>Used Alone</th>
<th>Used In Combination</th>
<th>Run Time Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main lighting</td>
<td>4 light points on totaling 610 lumens</td>
<td>included</td>
<td>4.0</td>
<td>19</td>
<td>7.9</td>
<td>hours</td>
</tr>
<tr>
<td>Television</td>
<td>23.6&quot; diagonal</td>
<td>included</td>
<td>10.8</td>
<td>8.2</td>
<td>4.0</td>
<td>hours</td>
</tr>
<tr>
<td>Radio</td>
<td>portable (3.15 Wh battery)</td>
<td>included</td>
<td>--</td>
<td>170</td>
<td>5.9</td>
<td>hours</td>
</tr>
<tr>
<td>Mobile Phone</td>
<td>Basic phone (3.7 Wh battery)</td>
<td>advertised</td>
<td>--</td>
<td>19</td>
<td>2.0</td>
<td>number of full charges</td>
</tr>
</tbody>
</table>

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

**Performance Measure**

- Lighting full battery run time (hours)
- Total light output in lumens

<table>
<thead>
<tr>
<th>Description</th>
<th>Brightness Setting: Four lamps on brightest light</th>
</tr>
</thead>
<tbody>
<tr>
<td>19</td>
<td>610</td>
</tr>
</tbody>
</table>

---

a A typical day of solar charging assumes 5 kWh/m²/day
b Only included appliances were tested. Run times and power ratings for appliances sold separately come from manufacturer ratings or standard estimates.
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

<table>
<thead>
<tr>
<th>Lamp Name</th>
<th>Type</th>
<th>Number of Settings</th>
<th>Light Output (lm)</th>
<th>Lumen Efficacy (lm/W)</th>
<th>CRI&lt;sup&gt;g&lt;/sup&gt;</th>
<th>CCT&lt;sup&gt;h&lt;/sup&gt;</th>
<th>Distribution Type</th>
<th>Lumen Maintenance&lt;sup&gt;i&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED lamp</td>
<td>LED</td>
<td>3</td>
<td>150</td>
<td>150</td>
<td>71</td>
<td>Cool (3000-5000 K)</td>
<td>Wide</td>
<td>&gt;99%</td>
</tr>
</tbody>
</table>

<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

### 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: ISO9001:2008 (PV Module, Radio, TV); ISO9001:2015 (Control Unit, Lights); ISO14001:2004 (PV Module, Control Units, Lights); ISO18001:2007 (PV Module)

Safety certification: --

Other certification: --

### Product Details

Manufacturer name: Azuri Technologies, Ltd.

Product name: Azuri 50W TV120 Solar Home System

Product model / ID number: AZ-002151 (kit); AZ001705 (PV Module); AZ001866 (Control Unit and Lighting Kit); 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