Apollo 9 Solar Home System
SR31A
Shenzhen Solar Run Energy Co. Ltd.
Results based on test procedures detailed in IEC 62257-9-5 v.4
Valid until August 30, 2021

Meets the Lighting Global Solar Home System Kit Quality Standards

Mobile charging
Pay-As-You-Go option available
Light point(s)
Plug-and-play

WARRANTY INFORMATION
A 2-year warranty covering manufacturing defects in the system.

PERFORMANCE DETAILS

<table>
<thead>
<tr>
<th>Appliance¹</th>
<th>Description</th>
<th>Used alone²</th>
<th>Used in combination³</th>
</tr>
</thead>
<tbody>
<tr>
<td>included</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Main lighting unit</td>
<td>3 light points on totaling 730 lumens and 9.6 W</td>
<td>10 hours</td>
<td>4.1 hours</td>
</tr>
<tr>
<td>Radio</td>
<td>portable (1900 mAh battery, 3.7 V nominal voltage)</td>
<td>180 hours</td>
<td>3.9 hours</td>
</tr>
<tr>
<td>Torch</td>
<td>600 mAh, 56 lumens torch, 3.2 V nominal voltage</td>
<td>160 hours</td>
<td>5.2 hours</td>
</tr>
<tr>
<td>sold separately</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mobile phone</td>
<td>Smart phone (5.7 Wh battery)</td>
<td>16.3 full charge(s)</td>
<td>1.3 full charge(s)</td>
</tr>
<tr>
<td>Television</td>
<td>19”DC TV (10W)</td>
<td>15 hours</td>
<td>2.3 hours</td>
</tr>
<tr>
<td>Fan</td>
<td>16” stand fan</td>
<td>15 hours</td>
<td>5.8 hours</td>
</tr>
</tbody>
</table>

Available daily electrical energy⁴ (Wh/day) 130

Performance measure Brightness setting: On
Lighting full battery run time⁵ for main unit (hours) 10
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any auxiliary lights included with the product) 8000

¹ Only included appliances were tested. Run times and power ratings for appliances sold separately come from manufacturer ratings or standard estimates.
² Without any other loads used during the run time
³ Based on an example use profile with all of the appliances listed in the "Used in combination" column used simultaneously.
⁴ 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

<table>
<thead>
<tr>
<th>Lamp name</th>
<th>Number of lamps</th>
<th>Number of settings</th>
<th>Setting</th>
<th>Light output (lm)</th>
<th>Lumen efficacy⁶ (lm/W)</th>
<th>CRI⁷</th>
<th>CCT⁸</th>
<th>Distribution type</th>
<th>Lumen maintenance⁹</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 W LED bulb</td>
<td>3</td>
<td>1</td>
<td>On</td>
<td>240</td>
<td>57</td>
<td>84</td>
<td>7000</td>
<td>Wide</td>
<td>100%</td>
</tr>
<tr>
<td>Torch</td>
<td>1</td>
<td>2</td>
<td>Front Light (torch light)</td>
<td>56</td>
<td>95</td>
<td>76</td>
<td>6300</td>
<td>Narrow</td>
<td>100%</td>
</tr>
</tbody>
</table>

⁶ Lumen efficacy is the power consumption at a light point during the light output test.
⁷ Color Rendering Index. An index of 100 is equivalent to viewing objects in daylight; above 80 is considered good.
⁸ Correlated Color Temperature in degrees Kelvin. Describes color appearance as warm (2700-3000 K), cool (3000-5000 K), or daylight (>5000 K)
⁹ Percent of the original light output that remains after 2,000 hours of run time
## PAYG
- **Pay-As-You-Go enabled**

## Ports
<table>
<thead>
<tr>
<th>Number</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>USB 2.0 type A</td>
<td>Mobile phones, torch and radio can be charged. Mobile phone charging adapters are included.</td>
</tr>
<tr>
<td>5</td>
<td>Barrel jack</td>
<td>Ports available to power appliances.</td>
</tr>
</tbody>
</table>

## Durability
- Overall durability and workmanship: Pass
- Durability tests passed: Switch test, Drop test, Strain relief test, physical ingress protection.
- Level of water protection:
  - Main Lighting Unit: Water ingress protection not tested, meant for indoor use only.
  - PV module: Has protection from permanent outdoor exposure

## Solar Details
- **PV module type**: Polycrystalline silicon
- **PV maximum power**: 53 watts

## Battery Details
- **Battery replaceability**: Easily replaceable with common tools; however, the warranty is void if product is opened.
- **Battery chemistry**: Lithium iron phosphate
- **Battery package type**: 26650
- **Battery capacity**: 9.7 Ah
- **Battery nominal voltage**: 12.8 V
- **Battery status indication**: Four LEDs indicate different working status: one code-entry indicator shows whether the code the customer entered is correct; one credit indicator shows whether the credit is enough; one solar module indicator shows solar charging status and one battery indicator shows battery level

## Product Details
- **Manufacturer name**: Shenzhen Solar Run Energy Co. Ltd.
- **Product name**: Apollo 9 Solar Home System
- **Product model / ID number**: SR31A
- **Contact information**: info@solarunoffgrid.com
- **Website**: www.solarunoffgrid.com
- **Dimensions (entire product in package)**: Multiple packages. Contact manufacturer for more information.
- **Mass**: Multiple packages. Contact manufacturer for more information.

## SSS Information
- **Specs sheet expiration date**: August 30, 2021
- **Quality standards framework version**: 2019
- **Revision**: 2019.08