

# 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

Verify online:

[www.lightingglobal.org/products/ssr-sr31A](http://www.lightingglobal.org/products/ssr-sr31A)

Valid until: January 31, 2022



Meets the Lighting Global Solar Home System Kit Quality Standards



Mobile charging

PAYG

Pay-As-You-Go option available

4

Light point(s)



Plug-and-play



## WARRANTY INFORMATION

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

## PERFORMANCE DETAILS

			Run time after a typical day of solar charging (assuming 5kWh/m <sup>2</sup> /day)	
	Appliance <sup>a</sup>	Description	Used alone <sup>b</sup>	Used in combination <sup>c</sup>
included	Main lighting unit	3 light points on totaling 730 lumens and 9.6 W	10 hours	4.1 hours
	Radio	portable (1900 mAh battery, 3.7 V nominal voltage)	180 hours	3.9 hours
	Torch	600 mAh, 56 lumens torch, 3.2 V nominal voltage	160 hours	5.2 hours
sold separately	Mobile phone	Smart phone (5.7 Wh battery)	16.3 full charge(s)	1.3 full charge(s)
	Television	19"DC TV (10W)	15 hours	2.3 hours
	Fan	16" stand fan	15 hours	5.8 hours

Available daily electrical energy<sup>c</sup> (Wh/day) 130

Performance measure	Brightness setting: On
Lighting full battery run time <sup>d</sup> 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

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

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

<sup>c</sup> Based on an example use profile with all of the appliances listed in the "Used in combination" column used simultaneously.

<sup>d</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.

## LIGHTING DETAILS

Lamp name	Number of lamps	Number of settings	Setting	Light output (lm)	Lumen efficacy <sup>e</sup> (lm/W)	CRI <sup>f</sup>	CCT <sup>g</sup>	Distribution type	Lumen maintenance <sup>h</sup>
3 W LED bulb	3	1	On	240	57	84	7000	Wide	100%
Torch	1	2	Front Light (torch light)	56	95	76	6300	Narrow	100%

<sup>e</sup> Lumen efficacy is the power consumption at a light point during the light output test.

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

<sup>g</sup> Correlated Color Temperature in degrees Kelvin. Describes color appearance as warm (2700-3000 K), cool (3000-5000 K), or daylight (>5000 K)

<sup>h</sup> Percent of the original light output that remains after 2,000 hours of run time

**SPECIAL FEATURES****PAYG****Pay-As-You-Go enabled****PORTS**

2

**USB 2.0 type A**

Mobile phones, torch and radio can be charged. Mobile phone charging adapters are included.

5

**Barrel jack**

Ports available to power appliances.

**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

January 31, 2022

Quality standards framework version

2019

Revision

2019.08