

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:

<https://data.verasol.org/products/ssr-sr31A>
Valid until: November 30, 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 ² /day)			
		Appliance ^a	Description	Used alone ^b	Used in combination ^c
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^c (Wh/day) 130

Performance measure	Brightness setting: On
Lighting full battery run time ^d 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

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

^b Without any other loads used during the run time

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

^d 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 ^e (lm/W)	CRI ^f	CCT ^g	Distribution type	Lumen maintenance ^h
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%

^e Lumen efficacy is the power consumption at a light point during the light output test.

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

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

^h 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	November 30, 2022	
Quality standards framework version	2019	
Revision	2019.08	