Apollo Solar Home System

SR31C53YG

Shenzhen Solar Run Energy Co. Ltd.

Verify online:
https://data.verasol.org/products/sek/ssr-sr31A

Results based on test procedures detailed in IEC TS 62257-9-5 and IEC TS 62257-9-8

Valid until: July 31, 2023

✓ **Meets the requirements in IEC TS 62257-9-8 for Size B Kits**

📱 **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

VeraSol Certified?	Included in Kit?	Appliance[a]	Description	Run time after a typical day of solar charging (assuming 5kWh/m^2/day)	
				Used alone[b]	Used in combination[c]
yes	included	Main lighting unit	3 light points on totaling 720 lumens and 9.6 W	27 hours	6 hours
yes	not included	Torch	600 mAh, 56 lumens torch, 3.2 V nominal voltage	67 hours	5.9 hours
yes	included	Radio	Portable (1900 mAh battery, 3.7 V nominal voltage)	545 hours	4.6 hours
yes	included	Fan	16" stand fan	17 hours	7.5 hours
no	not included	Television	32" DC TV (12.3 W)	16 hours	3 hours
no	not included	Mobile phone	Smart phone (5.7 Wh battery)	23 full charge(s)	1.5 full charge(s)

Available daily electrical energy[c] (Wh/day)	130

Performance measure	Brightness setting: On
Lighting full battery run time[d] for main unit (hours)	31
Lighting full battery run time of the torch powered by torch battery (hours)	76
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	15000

[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	94	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, PV durability tests
Level of water protection	Main Unit and LED bulbs	Water ingress protection not tested, meant for indoor use only.
	PV module	Has protection from permanent outdoor exposure
	Torch	Has protection from frequent rain; met
	Radio	Has protection from occasional rain; met
	Fan	Water ingress protection not tested, meant for indoor use only.

SOLAR DETAILS

PV module type	Polycrystalline silicon
PV maximum power	53 watts

MAIN UNIT 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	32700
Battery capacity	17.8 Ah
Battery nominal voltage	12.8 V
Battery status/ other indicator lights	One battery indicator shows battery level

PRODUCT DETAILS

Manufacturer name	Shenzhen Solar Run Energy Co. Ltd.
Product name	Apollo Solar Home System
Product model / ID number	SR31C53YG
Contact information	info@solarunoffgrid.com
Website	www.solarunoffgrid.com
Dimensions (entire product in package)	30.5 x 22 x 13.5 cm
Mass	3310 g

SSS INFORMATION

Specs sheet expiration date	July 31, 2023
Revision	2022.10