

SR31C531XYTG Solar Home System

SR31C531XYTG

Brand name: Solar Run

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

Verify online:

<https://data.verasol.org/products/sek/ssr-sr31c>

Valid until: January 31, 2026



Meets the Requirements in IEC TS 62257-9-8:2020 for Size B kits



Mobile charging



Pay-As-You-Go option available

5

Light point(s)



Plug-and-play



WARRANTY INFORMATION

A 2-year warranty covering manufacturing defects in the system and a 1-year warranty for the radio.

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	4 light points on high totaling 1310 lumens and 8.9 W power	21 hours	5.5 hours
yes	included	Solar Torch	59 lm torch (LiFePO4 battery: 0.6 Ah, 3.2 V)	52 hours	5.4 hours
yes	included	Television	32" diagonal television (10 W power consumption while in use)	18 hours	2.8 hours
yes	included	Radio	Portable radio (Li-ion battery: 1.9 Ah, 3.7 V), with a power consumption of 0.44 W while in use	380 hours	4.2 hours
no	not included	Smart phone	Smart phone (5.7 Wh battery)	20 full charge(s)	1.4 full charge(s)
yes	not included	Fan	16" diameter table fan (11 W power consumption while in use)	17 hours	6.9 hours

Available daily electrical energy^d (Wh/day)

170

Performance measure	Brightness setting: 5 lights on high
Lighting full battery run time ^d for main unit (hours)	26
Lighting full battery run time of the Solar Torch powered by Solar Torch battery (hours)	2.5
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	28400

^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)	Power consumption (W)	Lumen efficacy ^e (lm/W)	CRI ^f	CCT ^g	Distribution type	Lumen maintenance ^h
LED bulb	3	2	high	390	2.5	160	80	6700	Wide	100%
Sensor Light	1	1	on	140	1.4	97	81	7500	Wide	99%
Solar Torch	1	2	torch	59	0.59	100	74	6500	Narrow	97%

^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

PORTS			
2	USB 2.0 type A		Mobile phones, torches, and radios can be charged. Adapters are included.
5	Barrel jack		12 V ports available to power light points.
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	Water ingress protection not tested, meant for indoor use only.	
	PV module	Has protection from permanent outdoor exposure	
	LED bulb and 32" TV	Water ingress protection not tested, meant for indoor use only.	
	Sensor Light	Has protection from permanent outdoor exposure; met IPX5	
	Torch	Has protection from frequent rain; met IPX1	
SOLAR DETAILS			
PV module type		Monocrystalline silicon	
PV maximum power		53 watts	
PV rated power		50 watts	
PV open-circuit voltage (V _{oc})		21.6 volts	
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		18 Ah	
Battery nominal voltage		12.8 V	
Battery status / other indicator lights		LCD display shows the status of the battery	
PRODUCT DETAILS			
Company name		Shenzhen Solar Run Energy Co., Ltd	
Brand Name		Solar Run	
Product name		SR31C531XYTG Solar Home System	
Product model / ID number		SR31C531XYTG	
Contact information		info@solarunoffgrid.com	
Website		www.solarunoffgrid.com	
Dimensions (entire product in package)		Multiple packages. Contact manufacturer for more information.	
Mass		n/a	
SSS INFORMATION			
Specs sheet expiration date		January 31, 2026	
Revision		2025.02	