

Solar Home System

SR27B42G

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-sr27b>

Valid until: April 30, 2027



Meets the Requirements in IEC TS 62257-9-8:2020 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

				Run time after a typical day of solar charging (assuming 5kWh/m ² /day)	
VeraSol Certified?	Included in Kit?	Appliance ^a	Description	Used alone ^b	Used in combination ^c
yes	included	Main lighting unit	4 light points on high totaling 1200 lumens and 7.6 W power	7.2 hours	4.3 hours
no	not included	Smart phone	Smart phone (5.7 Wh battery)	7.6 full charge(s)	1.1 full charge(s)
yes	not included	Radio	Portable radio (Li-ion battery: 2 Ah, 3.7 V), with a power consumption of 0.33 W while in use	200 hours	3.3 hours
yes	not included	Torch	59 lumens torch, (LiFePO4 battery: 0.52 Ah, 3.2V)	18 hours	4.4 hours

Available daily electrical energy ^c (Wh/day)	43
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Performance measure	Brightness setting: 4 lights on high
Lighting full battery run time ^d for main unit (hours)	8.8
Total lighting service (lumen-hours / solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	8570

^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 name	Light output (lm)	Power consumption (W)	Lumen efficacy ^e (lm/W)	CRI ^f	CCT ^g	Distribution type	Lumen maintenance ^h
2 W bulb	4	2	high	300	1.9	160	80	6800	Wide	100%
			low	Not tested	0.82	Not tested	Not tested	Not tested	Omnidirectional	Not tested

^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, radios, and torches can be charged. Mobile phone adapters are included.
5	Barrel jack	 6 V ports available to power light points.
DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch 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
	2 W bulb	Water ingress protection not tested, meant for indoor use only.
SOLAR DETAILS		
PV module type		Monocrystalline silicon
PV maximum power		20 W
PV rated power		21 W
PV open-circuit voltage (V _{oc})		12.6 V
MAIN UNIT BATTERY DETAILS		
Battery replaceability		Not easily replaceable with common tools.
Battery chemistry		Lithium iron phosphate
Battery package type		32700
Battery capacity		12 Ah
Rated Battery capacity		12 Ah
Battery nominal voltage		6.4 V
Battery status / other indicator lights		On-screen indicator for battery life
PRODUCT DETAILS		
Company name		Shenzhen Solar Run Energy Co., Ltd.
Brand Name		Solar Run
Product name		Solar Home System
Product model / ID number		SR27B42G
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		April 30, 2027
Revision		2025.04