

# SANY Solar Home System

Glow Sun 50L

Brand name: SANY

Results based on test procedures detailed in IEC TS 62257-9-5:2018 and IEC TS 62257-9-8:2020

Verify online:

<https://data.verasol.org/products/sek/sse-sgs50l>

Valid until: April 30, 2027



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

Mobile charging

3 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 <sup>a</sup>	Description	Run time after a typical day of solar charging (assuming 5kWh/m <sup>2</sup> /day)	
				Used alone <sup>b</sup>	Used in combination <sup>c</sup>
yes	included	Main lighting unit	3 light points on high totaling 990 lumens and 7.5 W power	6.1 hours	1 hours
no	not included	Fan	Small table fan (16" or smaller diameter, 10 W power)	1.9 hours	1.3 hours
no	not included	Television	16" or smaller (diagonal) (18 W power consumption while in use)	3 hours	0.5 hours
no	not included	Smart phone	Smart phone (5.7 Wh battery)	6.9 full charge(s)	0.25 full charge(s)

Available daily electrical energy [Wh/day]	54
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Performance measure	Brightness setting: High
Lighting full battery run time for main unit [hours]	6.1
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	6040

<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 name	Light output <sup>e</sup> [lm]	Power consumption [W]	Lumen efficacy <sup>f</sup> [lm/W]	CRI <sup>g</sup>	CCT <sup>h</sup> [K]
Fixed Focus Lamp	3	3	High	330	2.5	130	82	5200
<sup>e</sup> Light output meets the lumen maintenance requirements of IEC TS 62257-9-8: at least 95% of initial value at 1,000 h, or at least 90% of initial value at 2,000 h. <sup>f</sup> Lumen efficacy is the power consumption at a light point during the light output test. <sup>g</sup> Color rendering index. An index of 100 is equivalent to viewing objects in daylight; above 80 is considered good. <sup>h</sup> Correlated color temperature in kelvin. Describes color appearance as warm (2700-3000 K), cool (3000-5000 K), or daylight (>5000 K).								
PORTS								
2	USB 2.0 type A				Smart phones can be charged. Adapters are included.			
3	Barrel jack				12 V ports available to power light points.			
1	USB Type C				Smart phones can be charged.			
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	Permanent rooftop installation for PV modules				
SOLAR DETAILS								
PV module type				Monocrystalline silicon				
PV maximum power				16 W				
PV rated power				16 W				
PV rated open-circuit voltage (V <sub>OC</sub> )				22.5 V				
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				26650				
Battery capacity (tested)				3.9 Ah				
Battery capacity (rated)				4 Ah				
Battery nominal voltage				12.8 V				
Battery status / other indicator lights				One indicator for power status, one indicator for charge rate, four indicators for battery level.				
PRODUCT DETAILS								
Company name (full)				SANY Silicon Energy (Zhuzhou) Co., Ltd.				
Company name ("brand")				SANY				
Product name				SANY Solar Home System				
Company contact information				zhoug5@sany.com.cn				
Company website				<a href="https://siliconenergy.sany.com.cn">https://siliconenergy.sany.com.cn</a>				
Mass				n/a				
SSS INFORMATION								
Expiration date				April 30, 2027				
Revision				2025.12				