Solar Power System

S50
StarTimes Software Technology Co., Ltd

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/st-s50
Valid until: December 31, 2025

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

📱 Mobile charging

PAYG Pay-As-You-Go option available

3 Light point(s)

▶ Plug-and-play

WARRANTY INFORMATION

A 2-year warranty for the main unit with the battery and integrated radio, and the included LED bulbs; a 1-year warranty for the included USB charging cables (optional); and a 5-year warranty for the PV module.

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 high totaling 350 lumens and 3 W	8.7 hours	0.61 hours
yes	included	Radio	integrated battery with a power consumption of 0.52W while in-use	47 hours	0.48 hours
no	not included	Tablet	Tablet Computer (15Wh battery)	1.2 hours	--
no	not included	Fan	Small table fan (16" or smaller diameter, 10 W power)	0.9 hours	0.8 hours
no	not included	Mobile phone	Smart phone (5.7 Wh battery)	3.3 full charge(s)	0.17 full charge(s)

Available daily electrical energy[c] (Wh/day)	26

Performance measure	Brightness setting: On
Lighting full battery run time[d] for main unit (hours)	11
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	3050

[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]
Hanging Lamp	3	1	On	120	120	87	5700	Wide	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

PORTS

2	**USB 2.0 type A**		Mobile phones and tablets can be charged, USB-compatible fans may be powered, and one of the USB ports can play media. Adapters are optional.
3	**Barrel jack**		9.6 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
	Hanging Lamp	Water ingress protection not tested, meant for indoor use only.

SOLAR DETAILS

PV module type	Monocrystalline silicon
PV maximum power	10 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
Specific Li-ion battery chemistry	lithium iron phosphate
Battery package type	3x 26700
Battery capacity	4.1 Ah
Battery nominal voltage	9.6 V
Battery status/ other indicator lights	One battery status indicator that shows battery charge level.

PRODUCT DETAILS

Manufacturer name	StarTimes Software Technology Co., Ltd
Product name	Solar Power System
Product model / ID number	S50
Contact information	wangliang@startimes.com.cn
Website	www.startimes.com.cn
Dimensions (entire product in package)	34.3 x 25.2 x 12.3 cm
Mass	2740 g

SSS INFORMATION

Specs sheet expiration date	December 31, 2025
Revision	2025.08