

Solar Power System S50

S50

StarTimes Software Technology Co., Ltd

Verify online:

<https://data.verasol.org/products/sek/st-s50>

Valid until: April 30, 2024

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



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

				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	3 light points on high totaling 400 lumens and 3.6 W	8 hours	1.5 hours
yes	included	Radio	integrated battery with a power consumption of 0.52W while in-use	62 hours	1.2 hours
no	not included	Tablet	Tablet Computer (15Wh battery)	1.4 hours	--
no	not included	Fan	Small table fan (16" or smaller diameter, 10 W power)	2.8 hours	2 hours
no	not included	Smart phone	Smart phone (5.7 Wh battery)	3.8 full charge(s)	0.41 full charge(s)

Available daily electrical energy ^c (Wh/day)	28
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Performance measure	Brightness setting: High
Lighting full battery run time ^d for main unit (hours)	8.2
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	3200

^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
LB1	3	2	High	130	110	86	6200	Wide	100%
			Low	66	130	87	6200	--	--

^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, and minimum daily payment is supported

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
SOLAR DETAILS		
PV module type		Polycrystalline silicon
PV maximum power		10 watts
MAIN UNIT BATTERY DETAILS		
Battery replaceability		Not easily replaceable with common tools.
Battery chemistry		Lithium iron phosphate
Specific Li-ion battery chemistry		lithium iron phosphate
Battery package type		18650
Battery capacity		3.7 Ah
Battery nominal voltage		9.6 V
Battery status indication		One battery status indicator that shows battery charge level.
PRODUCT DETAILS		
Manufacturer name		StarTimes Software Technology Co., Ltd
Product name		Solar Power System S50
Product model / ID number		S50
Contact information		wangliang@startimes.com.cn
Website		www.startimes.com.cn
Dimensions (entire product in package)		28 x 39 x 13 cm
Mass		3670 g
SSS INFORMATION		
Specs sheet expiration date		April 30, 2024
Revision		2023.09