

Solar Power System

S50C
Brand name: StarTimes

Results based on test procedures detailed in IEC TS 62257-9-5:2024

Verify online:
<https://data.verasol.org/products/sek/st-s50c>
Valid until: September 30, 2028



- Meets the Requirements in IEC TS 62257-9-8:2025 for Size B kits
- Mobile charging
- 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 hanging lamps; 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 320 lumens and 3.3 W power	11 hours	4.2 hours
yes	included	Radio	Radio integrated into main unit with a power consumption of 0.62 W while in use	65 hours	3.2 hours
no	not included	Smart phone	Smart phone (15 Wh battery)	1.8 full charge(s)	1.1 full charge(s)

Available daily electrical energy [Wh/day]	38
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Performance measure	Brightness setting: Three lights on high
Lighting full battery run time 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)	3520

^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	Lumen maintenance ^h
1.1 W lamp	3	2	high	110	1.1	100	85	6200	99
			low	55	0.58	94	85	6200	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 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 can be charged. Adapters are included.
3	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	Has protection from occasional rain; met with appropriate warning label
	PV module	Permanent rooftop installation for PV modules
	1.1 W lamp	Water ingress protection not tested, meant for indoor use only.
SOLAR DETAILS		
PV Module Type		Monocrystalline silicon
PV Maximum Power		14 W
PV Rated Power		15 W
PV Open-Circuit Voltage (V _{OC})		21.89 V
MAIN UNIT BATTERY DETAILS		
Battery Replaceability		Not easily replaceable with common tools.
Battery Chemistry		Lithium iron phosphate
Battery Package Type		26700
Battery Capacity (tested)		4 Ah
Battery Capacity (rated)		4 Ah
Battery Nominal Voltage		9.6 V
Battery status / other indicator lights		On screen indicator for battery life
PRODUCT DETAILS		
Company Name (full)		StarTimes Software Technology Co., Ltd.
Company Name ("brand")		StarTimes
Product Name		Solar Power System
Product Model or ID Number		S50C
Company Contact Information		wangliang@startimes.com.cn
Company Website		www.startimes.com.cn
Mass		n/a
SSS INFORMATION		
Expiration Date		September 30, 2028
Revision		2025.10