

Solar Power System S50

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: August 31, 2023



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

| 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 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

| 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 ^a (lm/W) | CR ^f | CCT ^g | Distribution type | Lumen maintenance ^h |
|-----------|-----------------|--------------------|---------|-------------------|------------------------------------|-----------------|------------------|-------------------|--------------------------------|
| LED bulb | 3 | 2 | High | 130 | 110 | 86 | 6200 | Wide | 100% |
| | | | Low | 66 | 130 | 87 | 6200 | -- | -- |



^a 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 | August 31, 2023 |
| Revision | 2021.08 |