

Spark Solar Home System

Spark 10 Angaza PAYG

Fosera Group

Results based on test procedures detailed in

IEC 62257-9-5 v.4

Verify online:

<https://data.verasol.org/products/sek/fs-spark10>

Valid until: September 30, 2022



PAYG

2



Meets the Lighting Global Pico-PV Quality Standards

Mobile charging

Pay-As-You-Go enabled

Light point(s)

Plug-and-play



WARRANTY INFORMATION

A 3-year warranty covering manufacturing defects in the system.

PERFORMANCE DETAILS

| | | | Run time after a typical day of solar charging (assuming 5kWh/m ² /day) | |
|-----------------|------------------------|---|---|----------------------------------|
| | Appliance ^a | Description | Used alone ^b | Used in combination ^c |
| included in kit | LED lamps | Two light points on high totaling 190 lumens and 1.4 W power | 8.5 hours | 2.5 hours |
| sold separately | Radio | portable radio (3.7 Wh battery, 3.7 V nominal voltage) with rated power consumption of 2.3 W while in-use | 3.9 hours | 1.9 hours |
| | Mobile phone | Basic phone (3.7 Wh battery) | 2.4 full charge(s) | 0.6 full charge(s) |

Available daily electrical energy^c (Wh/day)

11

Performance measure

Brightness setting: High

Lighting full battery run time^d for main unit (hours)

8.5

Total lighting service (lumen-hours/solar-day)

800

(includes the both main lighting unit and any auxiliary lights included with the product)

^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 |
|-----------|-----------------|--------------------|---------|-------------------|------------------------------------|------------------|------------------|-------------------|--------------------------------|
| LED lamp | 2 | 3 | High | 94 | 140 | 83 | 5100 | Wide | 99% |

^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 |
| PORTS | | | |
| 1 | USB 2.0 type A |  | One USB port is available to charge a mobile phone or power a radio. Adapters are not included. |
| 2 | Barrel jack |  | Two 3.2 V barrel jacks are used for light points only. |
| DURABILITY | | | |
| Overall durability and workmanship | | | Pass |
| Durability tests passed | | | Switch test, Strain relief test, physical ingress protection. |
| Level of water protection | Main Lighting 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 | | | 3.8 watts |
| BATTERY DETAILS | | | |
| Battery replaceability | | | Not easily replaceable with common tools. |
| Battery chemistry | | | Lithium iron phosphate |
| Battery package type | | | Other cylindrical |
| Battery capacity | | | 3.8 Ah |
| Battery nominal voltage | | | 3.2 V |
| Battery status indication | | | Main unit has one indicator for charging status, battery state of charge, low energy mode, and error state |
| PRODUCT DETAILS | | | |
| Manufacturer name | | | Fosera Group |
| Product name | | | Spark Solar Home System |
| Product model / ID number | | | Spark 10 Angaza PAYG |
| Contact information | | | info@fosera.com |
| Website | | | http://www.fosera.com/ |
| Co-brand of | | | Spark Solar Home System Spark 10 |
| Dimensions (entire product in package) | | | 8 x 27.5 x 20 cm |
| Mass | | | 1080 g |
| SSS INFORMATION | | | |
| Specs sheet expiration date | | | September 30, 2022 |
| Quality standards framework version | | | 2020 |
| Revision | | | 2021.09 |