

Spark Solar Home System

Spark 10 Angaza PAYG

Fosera Solarsystems GmbH & Co. KGaA

Results based on test procedures detailed in IEC 62257-9-5 v.4

Verify online:

www.lightingglobal.org/products/fs-spark10

Valid until February 28, 2022



Meets the Lighting Global Pico-PV Quality Standards



Mobile charging

PAYG

Pay-As-You-Go enabled

2

Light point(s)



Plug-and-play



WARRANTY INFORMATION

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

PERFORMANCE DETAILS

	Appliance ^a	Description	Run time after a typical day of solar charging (assuming 5kWh/m ² /day)	
			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 Solarsystems Gmbh & Co. KGaA

Product name

Spark Solar Home System

Product model / ID number

Spark 10 Angaza PAYG

Contact information

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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

February 28, 2022

Quality standards framework version

2020

Revision

2020.02