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 February 28, 2022



Meets the Lighting Global Pico-PV Quality Standards



Mobile charging

Pay-As-You-Go enabled

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2

Light point(s)

Plug-and-play

WARRANTY INFORMATION

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

Run time after a typical day of solar charging
(assuming 5kWh/m²/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	
	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	
sold separately	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)

Performance measure	Brightness setting: High
Lighting full battery run time ^d for main unit (hours)	8.5
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any auxiliary lights included with the product)	800

- ^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 vieiwing objects in daylight; above 80 is considered good.

⁹ 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.					
Lovel of water water time	Main Lighting Unit	Water ingress protection not tested, meant for indoor use only.					
Level of water protection	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		February 28, 2022					
Quality standards framework version		2020					
Revision		2021.09					