

Lighting Global Standardized Specifications Book

Manufacturer: fosera Group

Component Family Name: Spark Solar Home System Family

**Date of Standardized
Specifications Book Expiration:** March 31, 2022

Verify Online: www.lightingglobal.org/products/fs-sshsfamily

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This Lighting Global Standardized Specifications Book presents a **component-level Standardized Specifications Sheet** listing the available components in the product family by component type, each individual component's performance rating, and performance results for each component tested according to the Edition 4 of IEC 62257-9-5. Following the component-level Standardized Specifications Sheet is a **list of the systems** covered by this Specifications Book that use combinations of these components.

NOTICE: Systems or kits developed using components from the component family will each perform differently and have not all been evaluated on a system-level basis. All systems listed in this Specifications Book are regarded to have passed the applicable Lighting Global Quality Standards.

Quality Standards Framework Version: 2020

Revision: 2020.03

Component-Level Standardized Specifications Sheet

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Spark Solar Home System Family

Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (mAh)	Measured Battery Capacity (mAh)
Spark 10	Lithium iron phosphate	3.2	3800	3800
Spark 20	Lithium iron phosphate	3.2	7600	not tested
Spark 30	Lithium iron phosphate	3.2	11400	11400

PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
4 W module	4	3.8
6 W module	6	not tested
10 W module	10	9

Light Sources

Name / Model Number	Luminous Flux Rating (lm)			Measured Luminous Flux (lm)			Measured Lamp Efficacy (lm/W)		
	High	Medium	Low	High	Medium	Low	High	Medium	Low
Lamp mini	100	--	--	94	--	--	140	--	--

NOTICE: As indicated, not all components listed on this page were tested according to the Quality Test Method (QTM) in Edition 4 of IEC 62257-9-5. However, based on the satisfactory performance of the tested components in the family, the components that were not tested are regarded to have passed the applicable Lighting Global Quality Standards. In addition, all tested components passed an internal inspection, the full array of applicable QTM durability tests, as well as ingress protection testing (where applicable).

*Light points and appliances may perform differently when used with different systems.

List of Covered Systems

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Spark Solar Home System Family

System Name	Number of each component included in each system						
	Main unit with 3800 mA battery	Main unit with 7600 mA battery	Main Unit with 11400 mA battery	4 W PV Module	6 W PV Module	10 W PV Module	Lamp Mini
Fosera Spark 10**	1			1			2
Fosera Spark 20		1			1		2
Fosera Spark 30			1			1	2

**Tested as full system. Individual SSS available on Lighting Global website.

All systems feature either Angaza or Paygee PAYG systems, and an integrated keypad for access.

NOTICE:

Only the Spark 10 was fully tested as a system according to Edition 4 of IEC 62257-9-5. An Individual Standardized Specifications Sheet (SSS) that report system-level performance is available for the Spark 10 at www.lightingglobal.org/products. Systems that were not tested, but that were developed using components from the component family will perform differently than the system(s) shown in the individual system-level SSS. All systems listed above are regarded to have passed the applicable Lighting Global Quality Standards.

Unless otherwise noted, the following information applies to all listed systems and components:

Warranty Information

A three-year warranty covers defects in materials or manufacturing.

Marks and Certifications

Factory certification	ISO 9001:2015; ISO14001:2015
Safety certification	ISO 45001:2018