

Lighting Global Standardized Specifications Book

Manufacturer: fosera Group

Component Family Name: LSHS family

Date of Standardized Specifications Book Expiration: February 28, 2020

Verify Online: <http://www.lightingglobal.org/products/fs-lshsfamily>

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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 latest version of the Quality Test Method (QTM) in IEC 62257-9-5 or the Lighting Global Quality Assurance Protocol for Solar Home System Kits, as applicable. 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: 2019

Revision: 2019.10

Component-Level Standardized Specifications Sheet

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LSHS family

Battery / Control Box

Name / Model Number	Battery Capacity Rating (mAh)	Measured Battery Capacity (mAh)
LSHS 1500	1500	1500
LSHS 3000	3000	--
LSHS 4500	4500	--
LSHS 7500	7500	7400
LSHS 10500	10500	10600

PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
7 W module	7	6.9
10 W module	10	--
15 W module	15	--
20 W module	20	23
25 W module	25	--
35 W module	35	34

Light Sources

Name / Model Number	Luminous Flux Rating (lm)		Measured Luminous Flux (lm)		Measured Lamp Efficacy (lm/W)	
	High	Low	High	Low	High	Low
lamp 12V x 100	100	--	110	49	140	140
lamp 12V x 200	200	--	220	42	110	110
lamp 12V x 400	400	--	385	--	120	--
tubelight 400	400	--	392	41	100	100
fb lamp 12V x 100	90	--	not tested			
fb lamp 12V x 200	180	--	not tested			

NOTICE: As indicated, not all components listed on this page were tested according to the Quality Test Method (QTM) in IEC 62257-9-5 or the Lighting Global Quality Assurance Protocols for Solar Home System Kits. 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).

List of Covered Systems

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LSHS family

System Name	Number of each component included in each system																
	Battery					PV Module						Lamps					
	1500 mAh	3000 mAh	4500 mAh	7500 mAh	10500 mAh	7 W	10W	15W	20 W	25 W	35 W	lamp 100	lamp 200	lamp 400	fb lamp 100	fb lamp 200	tubelight 400
LSHS 1500	1					1						2					
LSHS 3000		1					1					2	1				
LSHS 4500			1					1				3	1				
LSHS 7500 (20W)				1					1						1	1	
LSHS 7500 (35W)				1							1	2	2				
LSHS 7500				1						1			1	1			
LSHS 10500 **					1						1	1					1

Additional individual kits can be configured from any of the components listed above.

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

All Systems are available with or without Pay-As-You-Go technology. PAYG versions have either Angaza or Lumeter systems.

NOTICE:

Only the LSHS 10500 was fully tested as a system according to the Quality Test Method (QTM) in IEC 62257-9-5 or the Lighting Global Quality Assurance Protocol for Solar Home System Kits, as applicable. Individual Standardized Specifications Sheets (SSS) that report system-level performance are available for the LSHS 10500 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 3-year warranty covering manufacturing defects in the system and the battery. The PAYG remote has a 1-year warranty.

Marks and Certifications

Factory certification

ISO 9001:2008