

LSHS 7500

fosera Group

Results based on test procedures detailed in
Lighting Global Solar Home System Test Method, Ed. 2.0

Verify online:

www.lightingglobal.org/products/fs-lshs7500

Valid Until: February 2019



Available Daily Electrical Energy (Wh/day)

76

Lumens

600



**Meets Lighting Global
Quality Standards**



Mobile Charging

PAYG

Pay-As-You-Go Option Available

2 Light Points

2 5-volt USB Ports



4 12-volt Ports



Warranty Information

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

Performance Details

Appliance ^b	Description	Included with kit?	Power ^b (W)	Run Time After a Typical Day of Solar Charging ^a		
				Used Alone ^c	Used In Combination ^d	Run Time Units
Main lighting	2 light points on totaling 600 lumens	included	5.2	15	5.0	hours
Television	15.6" diagonal	sold separately	5.5	14	2.5	hours
Fan	42 cm ceiling fan	sold separately	4.0	19	6.2	hours
Radio	portable (3.7 Wh battery)	sold separately	--	93	3.7	hours
Mobile Phone	Smart phone (5.7 Wh battery)	sold separately	--	9.2	1.2	number of full charges

Available daily electrical energy^d (Wh/day): 76

Performance Measure

Brightness Setting: Two lights on

Lighting full battery run time^e (hours)

18

Total light output in lumens^f

600

^a A typical day of solar charging assumes 5 kWh/m²/day

^b Only included appliances were tested. Run times and power ratings for appliances sold separately come from manufacturer ratings or standard estimates.

^c Without any other loads used during the run time

^d Based on an example use profile with all of the appliances listed used in combination

^e 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.

^f 1 candle or 1 kerosene wick lamp = approximately 10 lumens

Lighting Details

Lamp Name	Type	Number of Settings	Light Output (lm)	Lumen Efficacy (lm/W)	CRI ^g	CCT ^h	Distribution Type	Lumen Maintenance ⁱ
Lamp 400	LED	1	385	123	85	Cool (5000-7000 K)	Wide	>121%
Lamp 200	LED	1	220	109	84	Cool (5000-7000 K)	Wide	>96%

^g Color Rendering Index. An index of 100 is equivalent to viewing objects in daylight; above 80 is considered good.

^h Correlated Color Temperature in degrees Kelvin. Describes color appearance as warm, near daylight, or cool.

ⁱ Percent of the original light output that remains after 2,000 hours of run time

Special Features

Mobile charging and appliances	USB and 12 V ports available to charge devices and power appliances
--------------------------------	---

Durability

Overall durability and workmanship	Pass
Durability tests passed	Switch and connector cycling, strain relief test, physical ingress protection test. Water ingress protection not tested; meant for indoor use only.

Solar Details

PV module type	Polycrystalline silicon
PV maximum power	23 watts

Battery Details

Battery replaceability	Easily replaceable with common tools
Battery chemistry	Lithium iron phosphate
Battery package type	5x 18650 package
Battery capacity	7.4 Ah
Battery nominal voltage	12.8 V
Battery Status Indication	The main unit has seven indicator LEDs that display the battery level, PV charging status, overcurrent protection and payment status as well as two blue LEDs that indicate the product is on.

Marks and Certifications

Factory certification	ISO 9001:2008
-----------------------	---------------

Product Details

Manufacturer name	fosera Group
Product name	LSHS 7500
Product model / ID number	7500
Contact information	info@fosera.com
Website	www.fosera.com
Dimensions (entire product in package)	38 cm wide x 52 cm high x 14 cm deep
Weight	4670 g

SSS Information

Specs sheet expiration date	February 2019
Quality Standards Framework Version	2017
Revision	2017.04