

LSHS 10500

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-lshs10500

Valid Until: April 30, 2020



Available Daily Electrical Energy (Wh/day)

110

Lumens

500



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 for light points



Warranty Information

A 3-year warranty covering manufacturing defects in the system and the battery. A 1-year warranty covering the PAYG remote.

Performance Details

Appliance ^b	Description	Included/ Advertised	Run Time After a Typical Day of Solar Charging ^a		
			Used Alone ^c	Used In Combination ^d	Run Time Units
Lamp 12V x 100	fosera lamp 12 V 100lm	included	140	7.5	hours
Tubelight 400	fosera lamp 12 V 400 lm	included	29	7.5	hours
Television	fosera TV 100, 15.6"	advertised	21	4.0	hours
Fan	fosera ceiling fan 50	advertised	29	9.4	hours
Radio	fosera radio	advertised	140	5.6	hours
Smart Phone	5.7 Wh battery	advertised	14	1.9	number of full charges
Lamp 12V x 200	fosera lamp 12 V 200 lm	advertised	55	--	hours
Lamp 12V x 400	fosera lamp 12 V 400 lm	advertised	36	--	hours
Tubelight 700	fosera lamp 12 V 700 lm	advertised	19	--	hours
FB Lamp 12V x 100	fosera lamp 12 V 90 lm	advertised	120	--	hours
FB Lamp 12V x 200	fosera lamp 12V 180 lm	advertised	57	--	hours
Available daily electrical energy ^d (Wh/day)			110		
Performance Measure			Brightness Setting: Both Light Points on High		
Lighting full battery run time ^e (hours)			29		
Total light output in lumens ^f			500		

^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 above 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 kerosene wick lamp = approximately 10 lumens

Lighting Details	
Lamp type	LED
Description of light points	One Tubelight 400 and One Lamp 12V 100
Lumen efficacy	108 lm/W
Colour characteristics	CRI 86 CCT "Daylight" (>5000 K)
Distribution type	Wide
Lumen maintenance	99% of the original output remains after 2,000 hours of run time

Special Features	
Mobile charging	USB ports available to charge devices

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 for main unit; meant for indoor use only. PAYG remote has no protection from rain. Meets occasional rain protection requirements with a warning label.

Solar Details	
PV module type	Polycrystalline silicon
PV maximum power	34 watts

Battery Details	
Battery replaceability	Not easily replaceable with common tools. Battery can be replaced by Fosera authorized service provider
Battery chemistry	Lithium iron phosphate
Battery package type	7P4S 18650
Battery capacity	10.5 Ah
Battery nominal voltage	13 V
Appropriate battery protection circuit	Pass

Marks and Certifications	
Factory certification	ISO 9001:2008
Other Certification	CE, RoHS

Product Details	
Manufacturer name	fosera Group
Product name	LSHS 10500
Product model / ID number	V4.2.1
Contact information	info@fosera.com
Website	www.fosera.com

SSS Information

Specs sheet expiration date	April 30, 2020
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Quality Standards Framework Version	2017
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Revision	2017.10
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