

# LSHS 10500

fosera group

Results based on test procedures detailed in IEC 62257-9-5 v.4

Verify online:

<https://data.verasol.org/products/sek/fs-lshs-10500>  
Valid until: July 31, 2022



Meets the Lighting Global Solar Home System Kit Quality Standards



Mobile charging

PAYG

Pay-As-You-Go option available

2

Light point(s)



Plug-and-play



## WARRANTY INFORMATION

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

## PERFORMANCE DETAILS

			Run time after a typical day of solar charging (assuming 5kWh/m <sup>2</sup> /day)	
			Used alone <sup>b</sup>	Used in combination <sup>c</sup>
	Appliance <sup>a</sup>	Description		
included in kit	Main lighting unit	2 light points on high totaling 500 lumens and 4.71 W power	25 hours	5.2 hours
sold separately	Mobile phone	Basic phone (3.7 Wh battery)	21 full charge(s)	1.3 full charge(s)
	Television	23.6" diagonal (12 W power consumption while in-use)	10 hours	2.6 hours
	Fan	16" fan (8.5 W power)	14 hours	6.5 hours
	Radio	Portable (Li-ion battery: 3.7 Ah, 5 V), with a power consumption of 0.65 W while in-use	155 hours	3.9 hours
	Tablet	Tablet computer (15 Wh battery)	5.2 hours	--

Available daily electrical energy<sup>c</sup> (Wh/day) 120

Performance measure	Brightness setting: High
Lighting full battery run time <sup>d</sup> for main unit (hours)	27
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	12500

<sup>a</sup> Only included appliances were tested. Run times and power ratings for appliances sold separately come from manufacturer ratings or standard estimates.

<sup>b</sup> Without any other loads used during the run time

<sup>c</sup> Based on an example use profile with all of the appliances listed in the "Used in combination" column used simultaneously.

<sup>d</sup> 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 <sup>e</sup> (lm/W)	CRI <sup>f</sup>	CCT <sup>g</sup>	Distribution type	Lumen maintenance <sup>h</sup>
Lamp 100	1	3	high	110	140	86	5300	Wide	99%
Tube Light 400	1	3	high	390	100	85	5200	Wide	99%

<sup>e</sup> Lumen efficacy is the power consumption at a light point during the light output test.

<sup>f</sup> Color Rendering Index. An index of 100 is equivalent to viewing objects in daylight; above 80 is considered good.

<sup>g</sup> Correlated Color Temperature in degrees Kelvin. Describes color appearance as warm (2700-3000 K), cool (3000-5000 K), or daylight (>5000 K)

<sup>h</sup> Percent of the original light output that remains after 2,000 hours of run time

SPECIAL FEATURES		
PAYG		Pay-As-You-Go enabled
PORTS		
2	USB 2.0 type A	 Mobile phones and radios can be charged. Adapters are included.
4	Barrel jack	 12 V ports available to charge devices and power appliances and light points.
DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Strain relief test, Physical ingress protection.
Level of water protection	Main Unit	Water ingress protection not tested, meant for indoor use only.
	35 W PV module	Has protection from permanent outdoor exposure
SOLAR DETAILS		
PV module type		Polycrystalline silicon
PV maximum power		34 watts
MAIN UNIT BATTERY DETAILS		
Battery replaceability		Easily replaceable with common tools; however, the warranty is void if product is opened.
Battery chemistry		Lithium iron phosphate
Battery package type		7P4S 18650
Battery capacity		10.5 Ah
Battery nominal voltage		13 V
Battery status indication		Four indicators for battery state of charge
MARKS AND CERTIFICATIONS		
Factory certification		ISO 9001:2015; ISO 14001:2015; ISO 45001:2018
PRODUCT DETAILS		
Manufacturer name		fosera group
Product name		LSHS 10500
Contact information		info@fosera.com
Website		www.fosera.com
Dimensions (entire product in package)		39.5 x 68 x 13 cm
Mass		5950 g
SSS INFORMATION		
Specs sheet expiration date		July 31, 2022
Quality standards framework version		2020
Revision		2020.07