



The Fosera LSHS is an autonomous solar home system which is designed for enhanced electrification and capable of powering not only multiple lights but any efficient appliance as well, like a TV or a fan. Two built-in USB ports enable universal charging of mobile phones. All Fosera torches can be as well charged by the LSHS.

### Easy to install

Fosera systems allow easiest Plug & Play installation. No technical skills or special training are required. Solar modules, loads or extensions can be connected intuitively with no hazard to the system or to people.

### Modern battery technology and high quality components

Fosera uses LiFePO<sub>4</sub>-batteries, highly efficient and resistant to capacity losses, allowing the systems to provide up to 10 years of maintenance-free lifespan. This outstanding quality allows us to offer the longest warranty in the market, 3 years. All Fosera appliances are extremely efficient, with LED lights supplying up to 140 lm/W, and with a LED lifetime of up to 50.000 hours.



### Integration of PAYG technology

PAYG (Pay-As-You-Go) is a technology which helps overcome the upfront price barrier of solar home systems by enabling users to divide the price into affordable amounts over time. PAYG software companies such as Angaza, Solaris and Paygee provide distributors with a user-friendly interface to manage and track payments, expanding the market to the lowest incomes and thus increasing sales volume. Fosera works closely together with these companies, integrating their technology in our solar home systems and allowing communication with the final user through LED lights.



## Design your own system configuration

You are not sure which capacity to choose? Get in touch with our sales team, which will be glad to walk you through the different considerations to take in order to size the most suitable configuration for your project. Try out different light configurations and find out their battery runtimes.



## Easy scalability

Fosera battery boxes are the first solar home systems designed to grow with increasing user demand. As energy demand grows, so does the system, which can be interconnected with as many as 3 other battery boxes in one big joint system.

	LSHS 3000	LSHS 4500	LSHS 7500	LSHS 10500
Nominal system voltage	13 V			
System capacity	3 Ah	4.5 Ah	7.5 Ah	10.5 Ah
Weight	0.722 kg	0.89 kg	1.282 kg	1.564 kg
Dimensions	60 x 150 x 240 mm			
Max no. of loads	4 + 2 x USB			
USB outlet	2 x USB with combined 2 A ± 10% output			
Solar module				
Recommended module peak power	10 Wp	15 Wp	25 Wp	35 Wp
Module current	0.59 A	0.80 A	1.33 A	1.85 A
Module technology	Crystalline silicon			
Cable length panel to box	6 m			
Module dimensions	263 x 364 x 17 mm	360 x 340 x 17 mm	540 x 340 x 17 mm	669 x 380 x 25 mm
Module weight	1.08 kg	1.52 kg	2.11 kg	3.1 kg
Operation time				
Suggested lamp configuration	2 x Lamp 100 lm	3 x Lamp 100 lm	4 x Lamp 100 lm	4 x Lamp 100 lm
Full battery runtime	24:30 hrs	24:30 hrs	30:45 hrs	43 hrs
Solar runtime	21:40 hrs	19:30 hrs	24:30 hrs	34 hrs