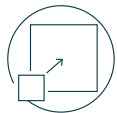# fosera® **EVO**

POWERFUL SOLAR HOME SYSTEM WITH UP TO 1kWh OF STORAGE

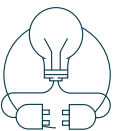**EXPANDABLE CONCEPT WHICH CAN GROW IN SEVERAL STEPS**

INNOVATIVE HYBRID BATTERY COMBINING LONG LIFETIME WITH LOW STORAGE COSTS

MULTIPLE OPTIONS TO EXPAND AND UPSELL
Designed to grow by adding appliances, additional battery and solar capacity

INNOVATIVE HYBRID BATTERY
Decreasing energy storage costs without compromising in quality or battery lifetime

SMART ENERGY MANAGEMENT
Optimising energy consumption allowing to program outlets and optimize the daily runtime of the system

POWERFUL AND VERSATILE
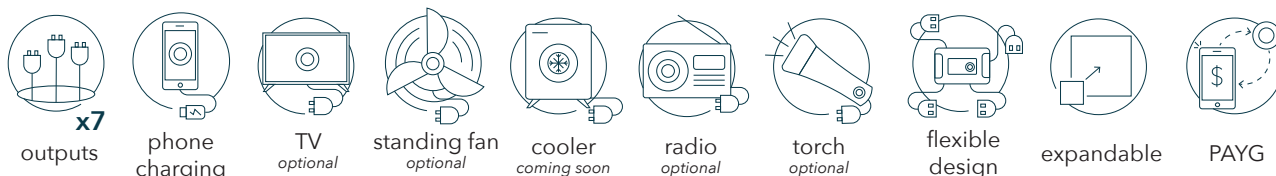High battery capacity and various outlets allowing diverse system configurations

RELIABLE LITHIUM PHOSPHATE BATTERY
Significantly longer battery lifetime compared to Lithium NMC and safer to use

The **fosera**. EVO is our largest solar home system, designed for extended energy needs or productive use. The innovative hybrid battery management system can either run as pure Lithium system or extended with a lead acid battery, without compromising in system reliability or lifetime.

The **fosera**. EVO has as well the ability to grow: once the energy demand increases, the **fosera**. EVO can be extended by adding an additional solar panel and battery, as well as the **fosera**. smartSHS appliances.

fosera® EVO

x7 outputs	phone charging	TV *optional*	standing fan *optional*
cooler *coming soon*	radio *optional*	torch *optional*	flexible design
expandable	PAYG		

fosera® **EVO**	**80**	**160**	**240**	**320**	units
Nominal system voltage	12.8				V
Lithium battery capacity (Built in)	7.6	15.2	22.8	30.4	Ah
Lithium battery energy (Built in)	97.3	194.6	291.8	389.1	Wh
Built in battery type	LiFePO4				
Recommended lead acid capacity	10 - 20	15 - 35	30 - 50	40 - 60	Ah
Protection features	Overcharge, deep discharge, overcurrent, short circuit, overload				
fosera. jack appliance outlets	4x 3A configurable				
Screw terminal outlets	1x 6 A regular 2x 6 A configurable	2x 10 A confiurable 1x 12 A high power	2x 10 A confiurable 1x 15 A high power	2x 10 A confiurable 1x 15 A high power	
USB outputs	2x 1A USB				
Max. load total output current	6	12	15	15	A
Solar input	2x Screw Terminal Solar input				
Max. total input current	6	12	15	15	A
External lead battery connector**	1x Screw terminal load				
Compatible external lead batteries**	Every 12V Lead acid battery: AGM (recommended), Gel, Open, Sealed max. dimensions: 270 x 180 x 180mm				
Max screw terminal cable surface	16				mm²
Dimensions pure lithium system	336.5 x 216.5 x 90				mm
Dimensions hybrid system	336.5 x 216.5 x 323				mm
PAYG *(optional)*	PAYG aviable				

RECOMMENDED SOLAR PANEL

	80	**160**	**240**	**320**	units
Module peak power	50	100	150*	200 (2x100)*	Wp
Module current *Impp*	2.69	5.38	8.06	10.76	A
Cable length panel to box	6				m
Module dimensions	670 x 530 x 25	1000 x 670 x 30	1482 x 670 x 35	2x (1000x670x30)	mm
Module weight	3.9	8.0	10.8	2x 8.0	kg

* Alternative solar panel configurations are possible adding up the recommended module peak power between two modules
** Available only for Hybrid EVO models