



POWER LINE EVO

smartSHS features
Multiple options to grow
Hybrid Battery Technology

The Fosera EVO provides an innovative hybrid storage solution, bringing solar power to a new level of performance and functionality. The combination of Lithium (LiFePO4) and lead acid batteries combines lower investment cost with higher capacity, supported by the reliability that characterizes the Fosera quality. The primary used Lithium battery, connected to the lead acid battery as a storage backup, offers sufficient charging cycles for more than 10 years of daily use. Get your Fosera EVO and join the Solar rEVolution!

The Future of Solar Home Systems

No more loud and bulky gasoline generators! The patented battery management technology, designed and equipped with the latest charge and discharge control diagnosis functions, allows larger appliances to be operated from one device. In combination with efficient loads, like the Fosera refrigerator or a water heater, the EVO manages their power consumption over the day to overcome the problem between energy generation and usage. Intuitive operation via the LCD display enables flexible and convenient monitoring of the EVO's versatile outputs. Additionally, intelligent functions such as priority, excess-energy and night-light settings can be set for several ports individually.

Just as any other Fosera System, the EVO offers a variety of battery configurations. The flexible and individual adaptation to many use cases allow to bail out the full potential of the EVO System. Whether it's lightning a farm, a home or running a small shop, the EVO is the right energy source for it. In case the energy demand increases at a later stage, the EVO can be adapted and grow, e.g. by adding an additional panel or the Fosera fridge, making the energy ladder real.



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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. Several different PAYG options are at request available for the Fosera systems.



| | Evo 80 | Evo 160 | Evo 240 | Evo 320 |
|------------------------------------|----------------------------------------------------------------------------------|----------|----------|----------|
| Nominal system voltage | 12 V | | | |
| Lithium capacity (built in) | 6,4 Ah | 12,8 Ah | 19,2 Ah | 25,6 Ah |
| Recommended lead capacity | 10-30 Ah | 30-50 Ah | 50-70 Ah | 70-90 Ah |
| Nominal system output | 156 W | 230 W | 230 W | 230 W |
| Max. load output current | 12 A | 18 A | 18 A | 18 A |
| Max. PV Open circuit voltage | 25 V | | | |
| Max. charging current | 12 A | 18 A | 18 A | 18 A |
| Max. short circuit current | 12 A | 18 A | 18 A | 18 A |
| Integrated USB outlet | 2x 5V / 1A | | | |
| Outlet Connectors | 2x USB, 4x Fosera Jack, 1x Screw Terminal Load, 2x Screw Terminal Special Outlet | | | |
| Connectors | 1x Screw Terminal Lead Acid Battery, 2x PV Module | | | |
| Max. Connector Cable diameter | 16 mm ² | | | |
| Ambient temperature | 0-50 °C max. Battery lifetime at 15-25 °C | | | |
| Protection functions | Overcurrent, Short circuit, Overload | | | |
| Compatible external lead batteries | Every 12 V lead acid battery (Gel, AGM, Open, Sealed) | | | |

