

fosera PSHS

Innovative Solar Home Systems

Innovative features:

- Innovative Li-Technology (High Lifespan, high cycle life, no sulphation)
- Easy extension
- Easy to install
- Ultra efficient fosera light (1W LED brings same illuminance as a 15-25W incandescent lamp)
- Crystalline cell technology (20 year lifespan)
- German Engineering
- Loads: Table lamps, Fan, Radio, Phone charger

fosera has developed a new kind of solar home power supply which combines high quality and innovative features at very reasonable cost.

fosera gives you bright light, it powers your radio and it charges your cellphone.

Most modern battery technology

fosera is using a new innovative Li-technology to store the energy. This battery technology offers very high cycle live and allows to use the battery over many years. Most solar home systems use lead acid batteries. These systems suffer a lot from sulphation. The fosera battery technology does not show any sulphation and it can be kept at a low state of charge. fosera batteries have a high efficiency and very low self discharge. An intelligent charge management protects the battery from any harmful condition. The extreme low self consumption of 0,01 mA allows to store the system without any loss of performance. An informative LED display informs on demand about the state of charge of the battery and about the status of the system. The system is well protected against over-current.

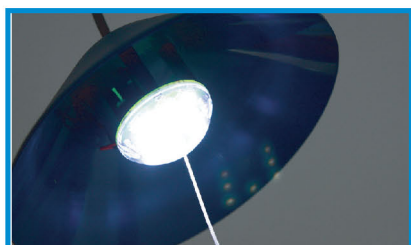
Easy extension

fosera is the first solar system which can grow. One fosera system allows to connect up to four different loads (e.g. lamps). If the demand grows, your fosera system can grow as well. The intelligent system design allows to put up to 4 fosera systems in parallel and to fulfill your growing power demand. It is electrically and mechanically prepared to make the parallel connection very easy.

Easy to install

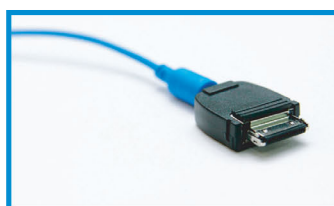
fosera offers an easy plug and play installation. It is very easy to connect the solar module and the load. The design of the plugs does not allow to make wrong connections. A special cable is offered to parallel several systems. It is not necessary to have any special education or skills to install the fosera system and Ultra efficient fosera light

fosera uses the most modern LED technology which offers very bright light and extremely high lifespan. At 5h use per day the life will be 15 years. The fosera lights are available in 3 sizes with 50, 100 and 200lm. The fosera 200 lamp takes about 1,3W electrical power and it has the same luminance like a 25W incandescent lamp. fosera 100 has nearly the same luminance as a 15W incandescent lamp.



Multiple applications

Currently there are phone chargers, radios, lamps and a fan available. Later it is the plan to have also TV sets and coolers available.



All loads are designed for long life and very low power consumption.

Technical Data

	PSHS 2800	PSHS 4200	PSHS 7000
System Voltage	3,2V	3,2V	3,2V
System Capacity@C20	2800mAh	4200mAh	7000mAh
Module Peak Power	1,5W	2,5W	5W
Module Current	400mA	650mA	1,2A
Lamp	fosera light 100	fosera light 200	fosera light 200
Max. no of recommend Lamps	2 x fosera 100	2 x fosera 200	4 x fosera 200
Radio possible	Yes	Yes	Yes
Phonecharger possible	At daytime	Yes	Yes

datasheet_PSHS_1/2_e_2010-06-01_subject to change without notice