

fosera BOP

Bottom of the Pyramid

Innovative Features:

The Li-battery technology has a battery life of up to eight years with no sulphation. The BOP can be charged with a small separate solar module that is included. The BOP can also be charged by combining it with the fosera PSHS by a Plug & Play connection. The robust and flexible design allows the device to be used in many ways, for example as a wall lamp, ceiling lamp or ambience light. The BOP uses efficient, long-lasting LED lights. The solar module uses crystalline cell technology that lasts over 20 years. After each full charging, the battery offers up to 50 hours of light in the dimmed mode. The BOP has a nightlight function and so the light can automatically switch on in the dark.



With German engineering, fosera has developed a new solar light that combines high quality with several innovative features at a very low price.

Modern Battery Technology

The fosera BOP uses a robust lithium iron phosphate battery to store solar power. This advanced battery technology is long lasting and the battery can be used for many years. Most other solar home systems and solar lanterns use lead acid batteries that have limitations due to sulphation. The fosera battery technology does not lead to any such sulphation and it can be stored for a long time at a low charge without any damage. Intelligent charge management protects the battery from any harmful condition.

Products from fosera have a unique, modular design principle. The fosera BOP can be used and combined with any other fosera PSHS or SCANDLE.

Easy Extension

Products from fosera allow for a fast Plug & Play installation. It is very simple to connect the solar module to the BOP and the design of the plugs does not allow wrong connections.

The BOP can be put on the table as a desk light, can be fixed on the wall or hung from the ceiling. It can also be used as a nightlight or can be mobile as a flashlight.

Efficient fosera Light

fosera uses the latest LED technology that offers long-lasting, very bright light.

Technical Data

	BOP 25	BOP 50
System Voltage	3.25 V	3.25 V
System Capacity @ C10	200 mAh	400 mAh
Illuminance (bright mode)	20 lm	40 lm
Daily operation hours (bright mode)*	4 h	4 h
Operation hours (dimmed mode and nightlight mode)**	50 h	50 h
Module Peak Power	0.3 W	0.5 W
Module Current (I _{sc})	90 mA	90 mA
Charging time	2 hrs	3 hrs

* Operation hours with full battery (solar module charged outside for several hours during the day).

** Dimmed mode is 8 lm; sufficient for low light use.