

Surf90

Semiflexible High-Efficiency Solar Module

Description

The new semi-flexible and ultra-light solar modules of the "Surf" series are ideal for mobile or lightweight applications such as mobile homes, boats or electric vehicles. In opposite to conventional modules, highly efficient and above all break-proof monocrystalline solar cells are used in a glass-fiber reinforced laminate, which still deliver full power even under heavy loads, vibrations, etc.

Due to their structured surface and the surrounding foil edge, the modules can be used for many years in outdoor areas, e.g. as non-slip underlays. With their 6 large eyelets at the corners and in the center, the module can be easily tensioned on boats or tents. The foil-based module can also be easily glued or screwed to the rear, drilling through the laminate in the edge area is no problem.

In contrast to other solar modules, the Surf90 is particularly long and narrow, making it particularly suitable for mounting on balcony railings or parapets. Mounted there, 2 Surf90 modules in series can be fed directly into the house grid via a module inverter.

For stand-alone applications, the Surf90 can be connected to 12V lead acid batteries, 12.8V iron phosphate batteries (with an additional charge controller) or directly to power stations via its 1m long connection cables. With the MC4 standard connectors several modules can be connected in series or parallel to increase the voltage or current.

Technical Data

	Dimensions (mm)	Weight (kg)	Rated power* P _{mpp} (Wp)	Rated voltage* U _{mpp} (V)	Charge current (A) real at 12.6V
Surf90	ca. 1400 x 360 x 3	ca. 2,3	90	18,0	4,8

* @ Sunlight 1000W/m² and 25°C module temperature

- Connection:** Cable 1m / 2x 2,5mm² + MC4 connectors
- Bending radius:** min. 1m
- Warranty:** 2 years, power warranty 5 years on 90% rated power

