

SPM20 - SPM40 - SPM90 SPM175 - SPM360

High efficiency monocrystalline cells

SPM photovoltaic modules are composed by high-efficiency monocrystalline cells and high sensibility to the light in the whole solar spectrum.

Maximum light concentration and diffusion in the cells

Encapsulation of cells is made between a high-transmission tempered glass layer. The encapsulant cover the photovoltaic cells inside the sheets, protecting from exterior. Texturization applied to the glass allows a maximum concentration and diffusion of the light in the cells.

Optimal module protection against climate agents.

This allows to guarantee a better performance, energy, and operating capacity, even with low solar levels. Back layer of ethylene vinyl acetate, with triple back blades layer, contributes to a better protection of the module and the electric contacts against climate agents' actions, as humidity and saline environment.



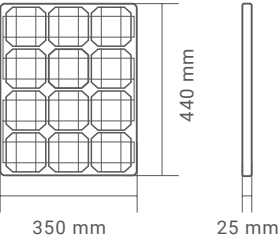
FEATURES

- The SPM modules use an anodized transparent and reinforced aluminium frame, highly resistant to marine conditions.
- Composed by 36 to 72 monocrystalline cells.
- Isotropic texturization and antireflecting coating.
- IP 65 watertightness degree. The modules are totally sealed to prevent water ingress.
- High performance, even under low sunlight levels.
- Maximum concentration and diffusion of light on the solar cells.
- High-transmission tempered glass.
- Cell protection through EVA encapsulation.
- Work temperature from -40 to 85° C.

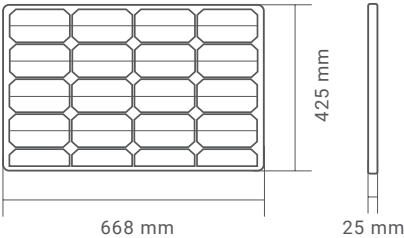
Standard specifications

MODEL	SPM20	SPM40	SPM90	SPM175	SPM360
Nominal power (P_{mpp})	20 W	40 W	90 W	175 W	360 W
Nominal voltage (V)	12 V				24 V
Maximum power current (I_{mpp})	1.09 A	2.19 A	4.59 A	9.03 A	9.38 A
Maximum power voltage (V_{mpp})	18.5 V	18.3 V	19.6 V	19.4 V	38.4 V
Temperature range	From -40° to +85°C				
Dimensions	440 x 350 x 25 mm	425 x 668 x 25 mm	780 x 668 x 25 mm	1485 x 668 x 30 mm	1956 x 992 x 40 mm
Weight	1.9 kg	3.1 kg	6.1 kg	11 kg	22 kg
Open circuit current (V_{oc})	22.6 V	22.45 V	24.06 V	23.7 V	47.4 V
Short circuit current (I_{sc})	1.19 A	2.4 A	5.03 A	9.89 A	10.24 A
Number of monocrystalline cells	36				72

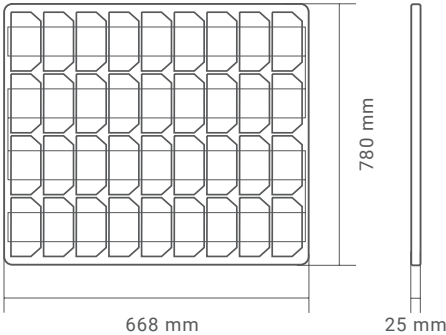
SPM20



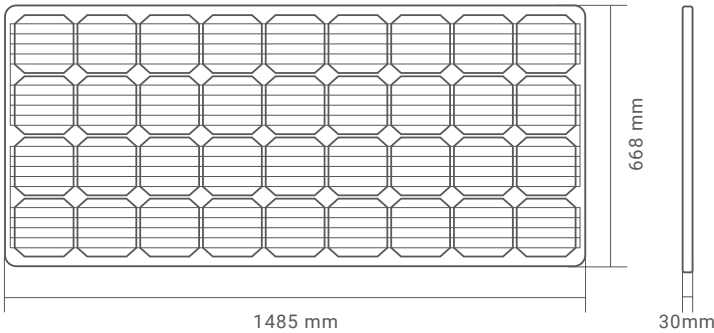
SPM40



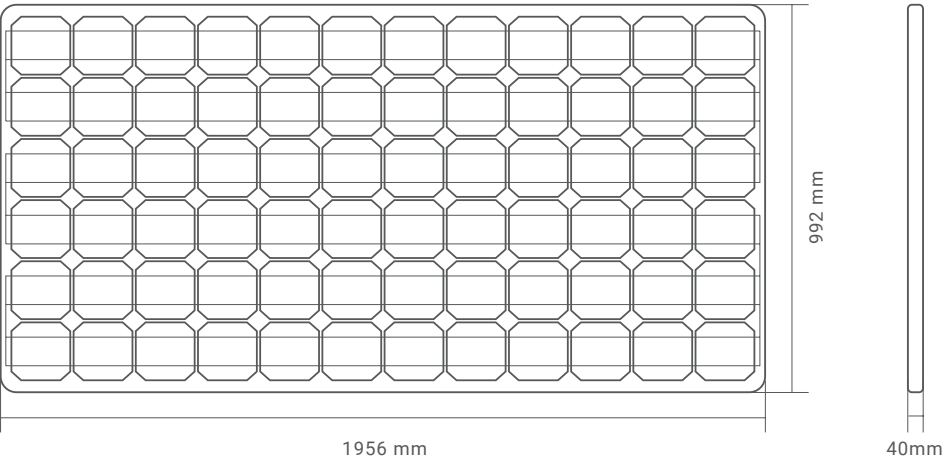
SPM90



SPM175



SPM360



Specifications subject to change without previous notice.