

# Solar Module

## SPS 80v / 85v mono

High Cell and Module Efficiency in Homogeneous Design

Compact Module Format with complete surrounding Aluminium Frame for fast mounting

Limited Power Warranty  
10 years on 90 %  
25 years on 80 %  
on Nominal Power ( ! )

2 years Product Guarantee

Class II Protection for up to 700 V

Power Tolerance +/- 5 %

Length 1197 mm  
Width 535 mm  
Height 35 mm  
Weight 8,5 kg



SPS - our benchmark is to be brilliant

**We are re-establishing the standards of Power-Tolerance, Frame-Stability, System-Voltage and Warranties.**

12 V version: Good for all Off-Grid Installations

Spring-Type Terminal for easieset connection

Full end control includes flashing data for every single module.

Our optical, mechanical and electrical quality control on-site meets your highest expectations.



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Sustainable Power Solutions

### Performance under Standard Test Conditions ( STC\* )

Nominal Power ( P <sub>Mpp</sub> )	80 Wp	85 Wp
Voltage ( V <sub>Mpp</sub> )	17.5 V	17.6 V
Current ( I <sub>Mpp</sub> )	4.58 A	4.83 A
Open Circuit Voltage ( V <sub>OC</sub> )	21.4 V	21.5 V
Short Circuit Current ( I <sub>SC</sub> )	4.82 A	5.12 A

### Performance at 800 W/m<sup>2</sup>, NOCT\*\*, AM 1.5

Power ( P )	62.8 Wp	66.7 Wp
Voltage ( V )	17.2 V	17.2 V
Current ( I )	3.65 A	3.88 A
Open Circuit Voltage ( V <sub>OC</sub> )	21.1 V	21.2 V
Short Circuit Current ( I <sub>SC</sub> )	3.9 A	4.14 A

Minor reduction in efficiency under partial load conditions with an insolation of 200 W/m<sup>2</sup> and 25° C: 85 % (+/- 10% ) of the STC efficiency

\* STC are defined as: insolation of 1000 W/m<sup>2</sup> at a right angle of the module, spectral light of AM 1.5 and a cell temperature of 25° C

\*\* NOCT = Nominal Operation Cell Temperature

### Component Materials

Cells per Module	36
Type of Cells	monocrystalline silicon
Cell Dimensions	125 x 125 mm

### Thermal Characteristics

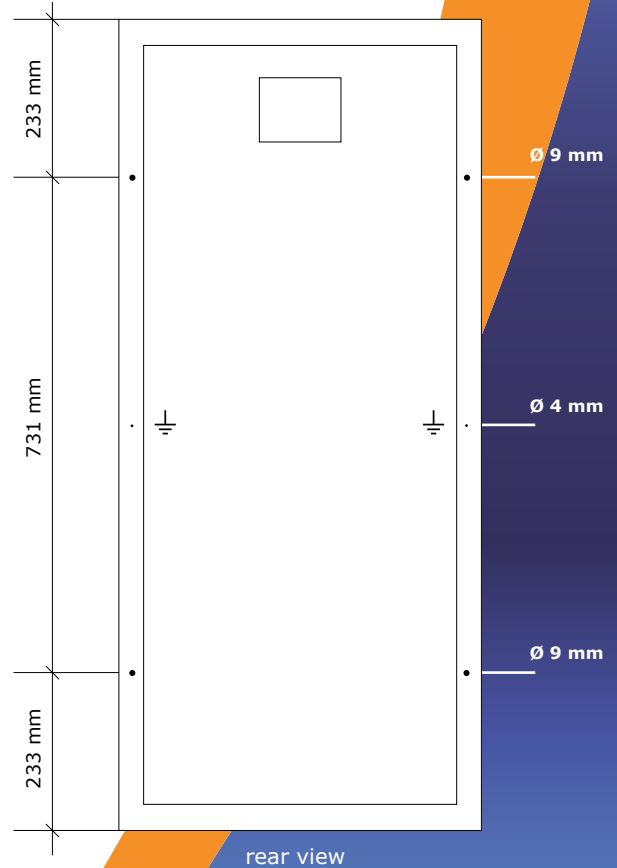
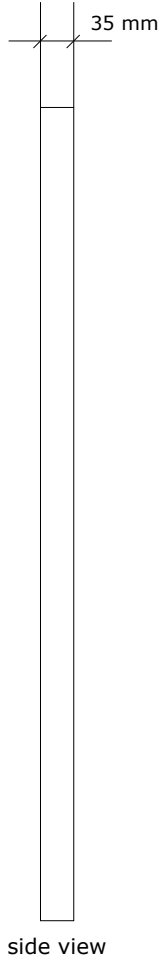
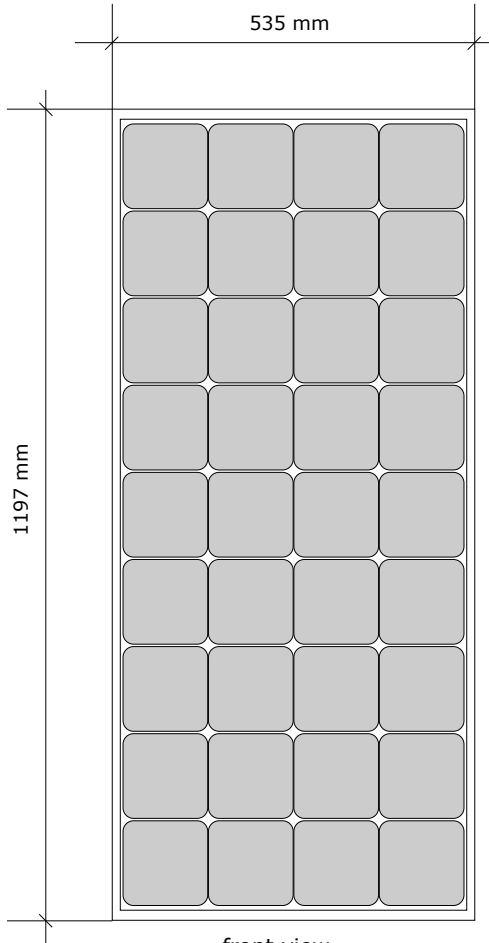
NOCT**	46° C
Temperature Coefficient of ISC	0,8 % / K
Temperature Coefficient of VOC	- 0.36 % / K

### System Design Characteristics

Front	3.2 mm glass
Cells embedding	EVA ( Ethylene-Vinyl-Acetate )
Rear	TPT
Maximum System Voltage	700 V
Reverse Current Load	do not apply external voltages in excess of V <sub>OC</sub> to the module

### Others

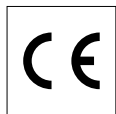
Rated Power	80 / 85 Wp +/- 5%
Connection Box	TYCO
Bypass Diodes	2 pcs
Connection	spring-type terminal



Modules manufactured according to

- ✓ IEC 61215 ( ISPRA )
- ✓ TUEV class II protection
- ✓ UL

Modules certified according to



your dealer