

TECHNICAL DATA SHEET

FSM090W,100W



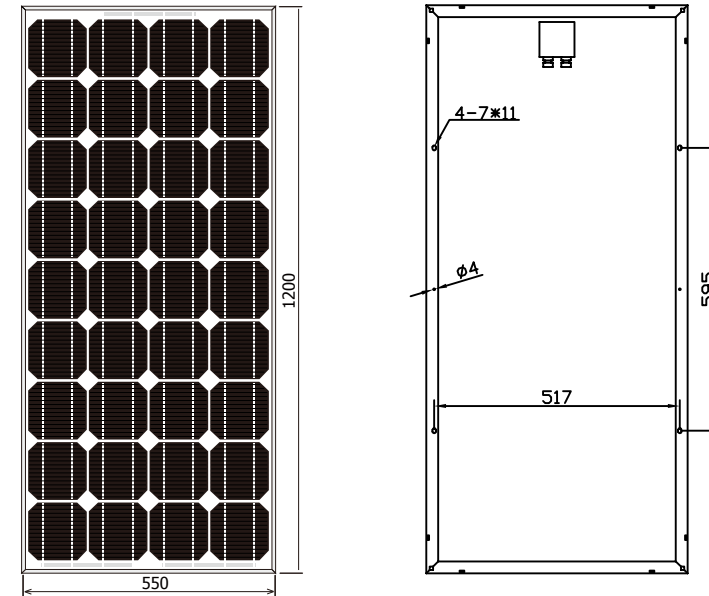
Technical Data

Type	FSM090W,100W
Type of Solar Cell	Mono-crystalline, 125mm×125mm
Number of Cells	36 pcs
Size of module	1200×550×35mm (125×125mm cell)
Module, Weight	8 kg
Connector / Cross-Section	TOP
Cables, Length (+/-)	Customizable
Front Cover Glass	Safety Glass
Front Cover Glass, Thickness	3.2 mm
Frame	Anodized Aluminium

Electrical Data

Maximum Power	$P_{MPP\ STC}$	90 W	100 W
Power Tolerance	Δ_{STC}	+3%	+3%
Maximum Power Voltage	$U_{MPP\ STC}$	18.5 V	18.6 V
Maximum Power Current	$I_{MPP\ STC}$	4.87 A	5.21 A
Open Circuit Voltage	$U_{OC\ STC}$	22.4 V	22.5 V
Short Circuit Current	$I_{SC\ STC}$	5.36 A	5.52 A
Cell Efficiency	η_{STC}	17.1%	17.9%
Maximum System Voltage	U_{DC}	1000 V	1000 V

STC: Irradiance 1000 W/m²; Spectrum AM 1,5; Cell Temperature 25°C, Wind 0 m/s



Temperature Coefficients

Power Coefficient	$\alpha_k (P_{MPP})$	- 0.45 %/K
Voltage Coefficient	$\beta_k (U_{OC})$	- 0.35 %/K
Current Coefficient	$\phi_k (I_{SC})$	0.065 ± 0.015 %/K

Power Warranty

- 10 years performance warranty to 90 %
- 25 years performance warranty to 80 %
- 5 years warranty against production and material defects

Certifications

IEC 61215, IEC 61730 ,TUV, CE, ISO9001:2000

