

# TECHNICAL DATA SHEET

SM636-100W



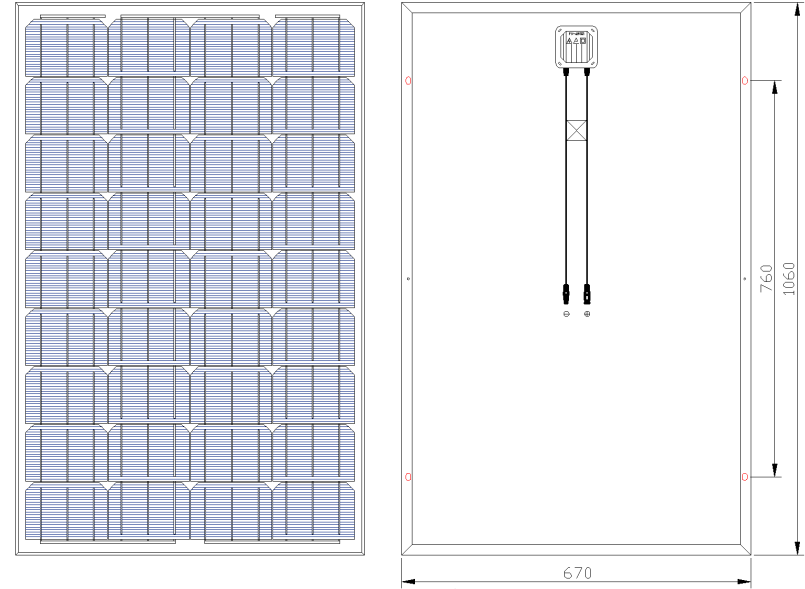
## Technical Data

Type	SM636-100W
Type of Solar Cell	Mono-crystalline, 156mm × 156mm
Number of Cells	36 pcs
Size of module	1060 × 670 × 35mm ( 156 × 109mm cell)
Module, Weight	8.5 kg
Connector / Cross-Section	Junction Box
Cables, Length (+/-)	Customizable
Front Cover Glass	Safety Glass
Front Cover Glass, Thickness	3.2 mm
Frame	Anodized Aluminium

## Electrical Data

Maximum Power	$P_{MPP\ STC}$	100 W
Power Tolerance	$\Delta_{STC}$	+3%
Maximum Power Voltage	$U_{MPP\ STC}$	18.2 V
Maximum Power Current	$I_{MPP\ STC}$	5.49A
Open Circuit Voltage	$U_{OC\ STC}$	22.2V
Short Circuit Current	$I_{SC\ STC}$	6.01 A
Cell Efficiency	$\eta_{STC}$	17.0%
Maximum System Voltage	$U_{DC}$	1000 V

STC: Irradiance 1000 W/m<sup>2</sup>; Spectrum AM 1.5; Cell Temperature 25°C, Wind 0 m/s



## Temperature Coefficients

Power Coefficient	$\alpha_k (P_{MPP})$	$-0.50 \pm 0.05\%/K$
Voltage Coefficient	$\beta_k (U_{oc})$	$-0.35 \pm 0.01\%/K$
Current Coefficient	$\varphi_k (I_{sc})$	$0.065 \pm 0.015\%/K$

## 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

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