

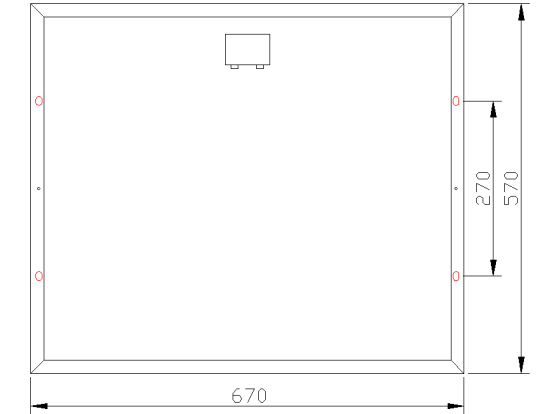
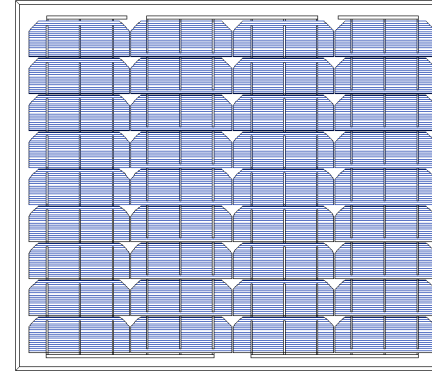
TECHNICAL DATA SHEET

SM636-50W



Technical Data

Type	SM636-50W
Type of Solar Cell	Mono-crystalline, 156mm × 156mm
Number of Cells	36 pcs
Size of module	570 × 670 × 35mm (156 × 55mm cell)
Module, Weight	5.2 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	$P_{MPP\ STC}$	50 W
Power Tolerance	Δ_{STC}	+3%
Maximum Power Voltage	$U_{MPP\ STC}$	18.0 V
Maximum Power Current	$I_{MPP\ STC}$	2.78A
Open Circuit Voltage	$U_{OC\ STC}$	21.4V
Short Circuit Current	$I_{SC\ STC}$	3.11 A
Cell Efficiency	η_{STC}	17.1%
Maximum System Voltage	U_{DC}	1000 V

STC: Irradiance 1000 W/m²; Spectrum AM 1.5; Cell Temperature 25°C, Wind 0 m/s

Temperature Coefficients

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

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