

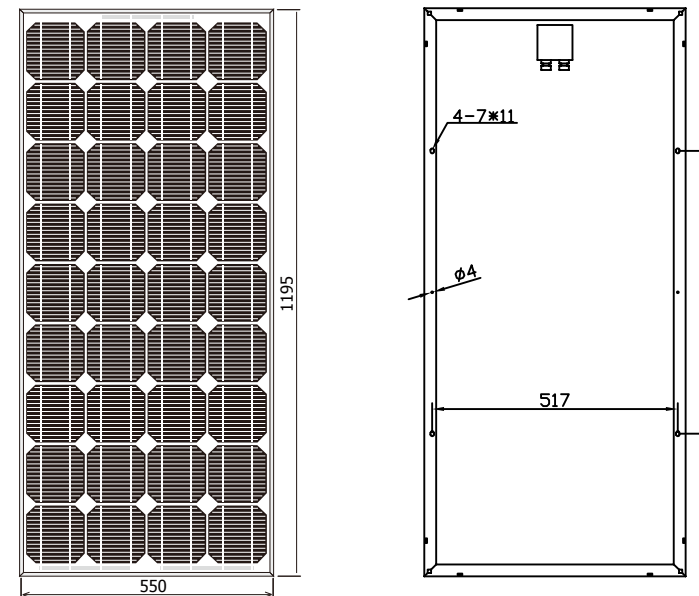
TECHNICAL DATA SHEET

SM536-85、SM536-90、SM536-95



Technical Data

Type	SM536-85、SM536-90、SM536-95
Type of Solar Cell	Mono-crystalline, 125mm×125mm
Number of Cells	36 pcs
Size of module	1200×540×35mm (125×125mm cell)
Module, Weight	8 kg
Connector / Cross-Section	Cixi Renhe, TOP
Cables, Length (+/-)	Customizable
Front Cover Glass	Safety Glass
Front Cover Glass, Thickness	3.2 mm
Frame	Anodized Aluminium



Electrical Data

Maximum Power	$P_{MPP\ STC}$	85 W	90 W	95 W
Power Tolerance	Δ_{STC}	$\pm 2\%$	$\pm 2\%$	$\pm 2\%$
Maximum Power Voltage	$U_{MPP\ STC}$	17.4 V	17.6 V	17.8 V
Maximum Power Current	$I_{MPP\ STC}$	4.89 A	5.11 A	5.33 A
Open Circuit Voltage	$U_{OC\ STC}$	21.6 V	21.8 V	22.2 V
Short Circuit Current	$I_{SC\ STC}$	5.25 A	5.51 A	5.79 A
Cell Efficiency	η_{STC}	15.9%	16.8%	17.8%
Maximum System Voltage	U_{DC}	700 V	700 V	700 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 \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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