

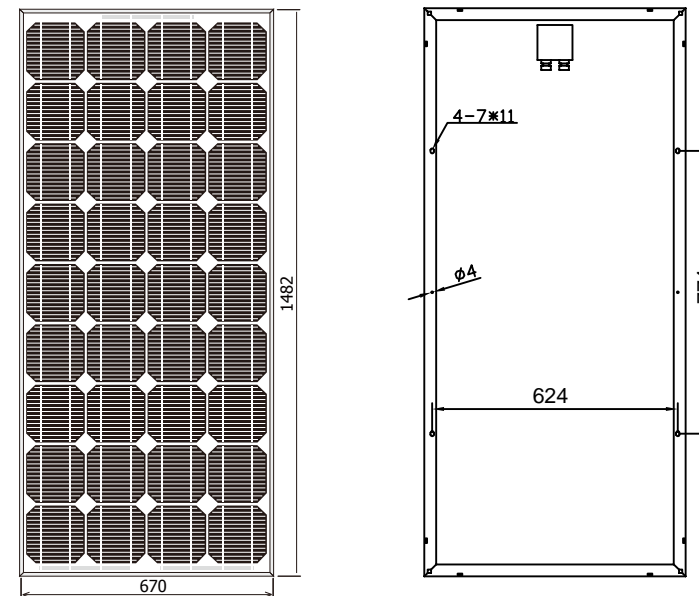
TECHNICAL DATA SHEET

SM636-120W, SM636-130W, SM636-140W



Technical Data

Type	SM636-120, SM636-130W, SM636-140W
Type of Solar Cell	Mono-crystalline, 156mm×156mm
Number of Cells	36 pcs
Size of module	1482×670×35mm (156×156mm cell)
Module, Weight	12 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

	$P_{MPP\ STC}$	120 W	130 W	140 W
Maximum Power	$P_{MPP\ STC}$	120 W	130 W	140 W
Power Tolerance	Δ_{STC}	$\pm 2\%$	$\pm 2\%$	$\pm 2\%$
Maximum Power Voltage	$U_{MPP\ STC}$	17.7 V	17.8 V	17.8 V
Maximum Power Current	$I_{MPP\ STC}$	7.14 A	7.43 A	7.78 A
Open Circuit Voltage	$U_{OC\ STC}$	21.7 V	21.8 V	22.1 V
Short Circuit Current	$I_{SC\ STC}$	7.57 A	7.85 A	8.25 A
Module Efficiency	η_{STC}	12.10%	13.10%	14.10%
Maximum System Voltage	U_{DC}	1000 V	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 \pm 0.015 %/K

Power Warranty

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

Certifications

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

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