

TECHNICAL DATA SHEET

AASM-140-48



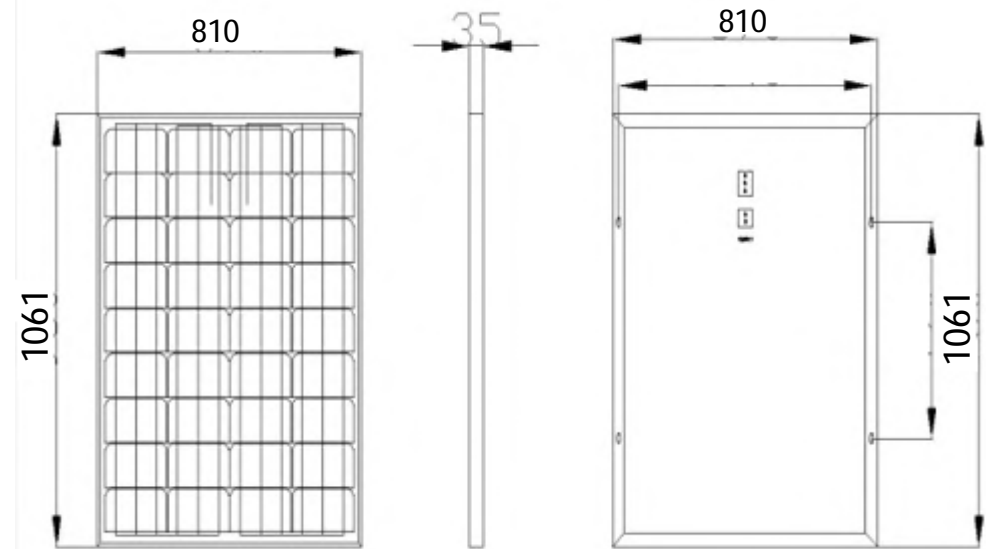
Technical Data

Type	AASM-140-48
Type of Solar Cell	Mono-crystalline,
Number of Cells	48 pcs
Size of module	1061×810×35mm (125×125mm cell)
Module, Weight	8.6 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	$P_{MPP\ STC}$	140 W
Power Tolerance	Δ_{STC}	+ 3%
Maximum Power Voltage	$U_{MPP\ STC}$	23.2 V
Maximum Power Current	$I_{MPP\ STC}$	6.04A
Open Circuit Voltage	$U_{OC\ STC}$	28.8V
Short Circuit Current	$I_{SC\ STC}$	6.40A
Module Efficiency	η_{STC}	16.35%
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	$\Phi_k (I_{sc})$	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

