



AS-6P18 Solar Module

Electrical Characteristics

Electrical parameters at STC		
Nominal Power (P_{max})	45W	50W
Open Circuit Voltage (V_{oc})	22.0V	22.2V
Short Circuit Current (I_{sc})	2.81A	3.04A
Voltage at Nominal Power (V_{mp})	17.6V	17.8V
Current at Nominal Power (I_{mp})	2.56A	2.81A

STC: Irradiance 1000W/m², Cell temperature 25°C, AM1.5

Mechanical Characteristics

Cell type	Polycrystalline
Number of cells	36 (4x9)
Module dimension	535x670x25mm
Weight	4.2kg
Front cover	3.2mm low-iron tempered glass
Frame	Anodized aluminum alloy
Junction box	IP65
Cable	2.5mm ² , 500mm
Connector	MC4 compatible

Temperature Characteristics

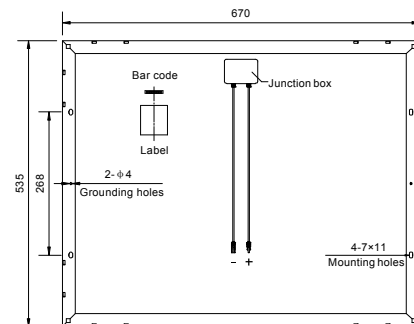
Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficients of P_{max}	-0.43%/°C
Temperature Coefficients of V_{oc}	-0.33%/°C
Temperature Coefficients of I_{sc}	0.056%/°C

Maximum Ratings

Operating Temperature	-40°C to +85°C
Maximum System Voltage	1000V DC
Maximum Series Fuse Rating	5A

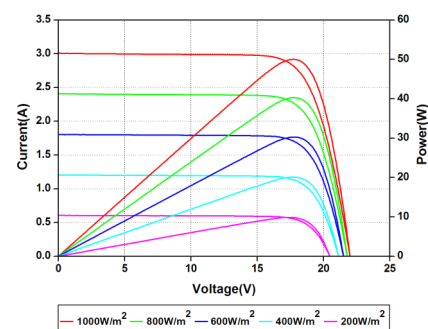
Specifications in this datasheet are subject to change without prior notice.

Drawings

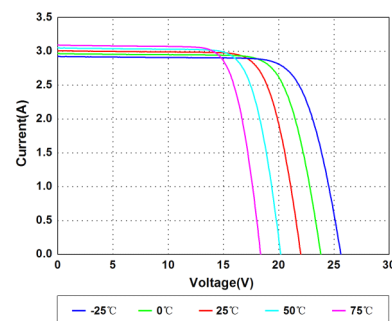


Unit: mm

I-V Curves



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures

