



New Energy

New World

Worldwide Energy and Manufacturing USA Co., Limited

AS-6P18 Solar Module

Electrical Characteristics

Electrical parameters at STC			
Nominal Power (P_{max})	80W	85W	90W
Open Circuit Voltage (V_{oc})	22.0V	22.2V	22.4V
Short Circuit Current (I_{sc})	5.00A	5.20A	5.40A
Voltage at Nominal Power (V_{mp})	17.6V	17.8V	18.0V
Current at Nominal Power (I_{mp})	4.55A	4.78A	5.00A

STC: Irradiance $1000W/m^2$, Cell temperature $25^{\circ}C$, AM1.5

Mechanical Characteristics

Cell type	Polycrystalline
Number of cells	36 (4x9)
Module dimension	910x670x35mm
Weight	7.2kg
Front cover	3.2mm low-iron tempered glass
Frame	Anodized aluminum alloy
Junction box	IP65
Cable	2.5mm ² , 900mm
Connector	MC4 compatible

Temperature Characteristics

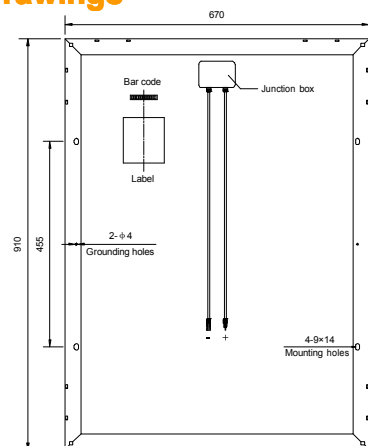
Nominal Operating Cell Temperature (NOCT)	$45^{\circ}C \pm 2^{\circ}C$
Temperature Coefficients of P_{max}	$-0.43\%/^{\circ}C$
Temperature Coefficients of V_{oc}	$-0.33\%/^{\circ}C$
Temperature Coefficients of I_{sc}	$0.056\%/^{\circ}C$

Maximum Ratings

Operating Temperature	$-40^{\circ}C$ to $+85^{\circ}C$
Maximum System Voltage	1000V DC
Maximum Series Fuse Rating	10A

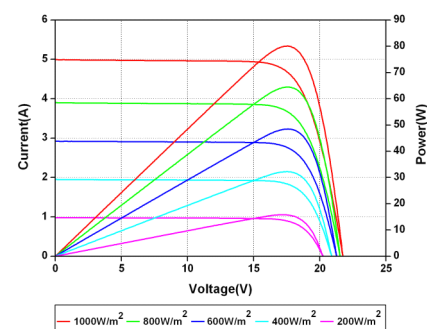
Specifications in this datasheet are subject to change without prior notice.

Drawings

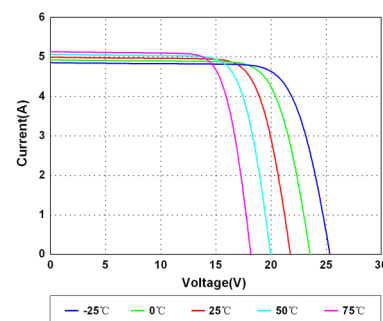


Unit: mm

I-V Curves



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures



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