



# Datasheet

## 140Wp — 160Wp



## Monocrystalline solar PV module

Model Number	SN-M140	SN-M145	SN-M150	SN-M155	SN-M160	SN-M165
Maximum Power (pmax)	140Wp	145Wp	150Wp	155Wp	160Wp	165Wp
Optimum Operating Voltage/Vmp	18.0V	18.0V	18.0V	18.0V	36V	36V
Optimum Operating Current/Imp	7.76A	8.06A	8.33A	8.61A	4.44A	4.58A
Open Circuit Voltage /Voc	21.6V	21.6V	21.6V	21.6V	43.2V	43.2V
Short Circuit Current /Isc	7.96A	8.26A	8.53A	8.81A	4.64A	4.78A
Module Efficiency	14.1%	14.6%	15.1%	15.6%	16.1%	16.6%
Power Tolerance (%)				±3		
Maximum Series Fuse Rating				15A		
Maximum system voltage				1000 V DC		

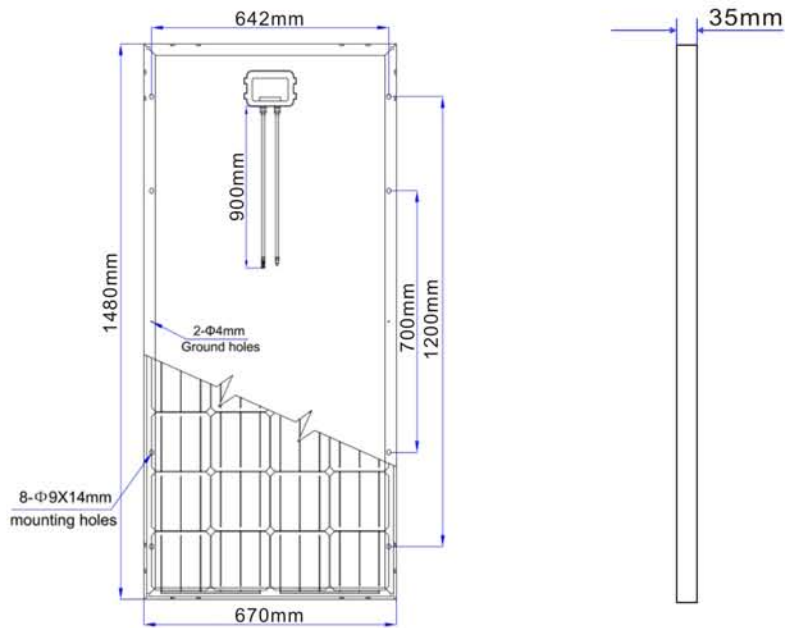
### Maximum Data

Operating Temperature	-40°C~+80°C	°C
Storage temperature	from -40°C ~+80°C	°C
Instulation cut voltage	1000	DC
Maximum wind resistance	60m/s	N/m <sup>2</sup> or max Km/h
Surface maximum load capacity	200	Kg/m <sup>2</sup>
Maximum hail load capacity	25mm	80km/h

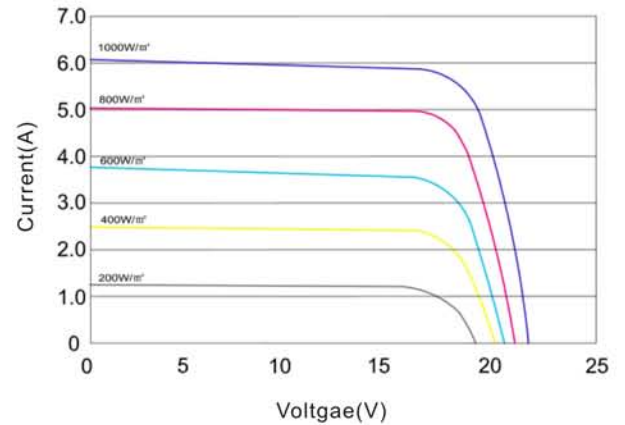
### EFFICIENCY

-  Low voltage-temperature coefficient allows higher power output at high-temperature condition
-  High efficient, high reliable solar cells ensure our product output stability

## Physical Characteristics



## I-V Curve



## Laminating Data

Cell dimension (mm)	156 x 156
Dimensions (mm)	1480x670x35
Number of cells	36(4*9)
Weight	13Kg
Frame Material	Clear anodized aluminium frame
Thickness of glass	3.2 mm tempered glass
Frame	Anodized aluminum alloy
Laminating material	EVA
Backsheet material	TPT
Junction Box	Ip65

## STC

AM condition	AM1.5
Intensity of illumination	1000W/m <sup>2</sup>
temperature	25°C

## Temperature Characteristics

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.45%/°C
Temperature Coefficient of Voc	-0.34%/°C
Temperature Coefficient of Isc	0.050%/°C

## Superior Warranty



- 10** 10-years Manufacturing warranty.
- 12** 12-years warranty 90% power output.
- 25** 25-years warranty 80% power output.