

Datasheet

160Wp — 200Wp

Polycrystalline solar PV module





Model Number	SN-P160	SN-P170	SN-P180	SN-P190	SN-P200
Maximum Power (pmax)	160Wp	170Wp	180Wp	190Wp	200Wp
Optimum Operating Voltage/Vmp	24V	24V	24V	24V	24.2V
Optimum Operating Current/Imp	6.67A	7.08A	7.5A	7.92A	8.26A
Open Circuit Voltage /Voc	28.8V	28.8V	28.8V	28.8V	28.8V
Short Circuit Current /Isc	7.27A	7.68A	8.1A	8.52A	8.86A
Module Efficiency	12.2%	13%	13.8%	14.5%	15.3%
Power Tolerance (%)	±3				
Maximum Series Fuse Rating	15A				
Maximum system voltage	1000 V DC				

Maximum Data

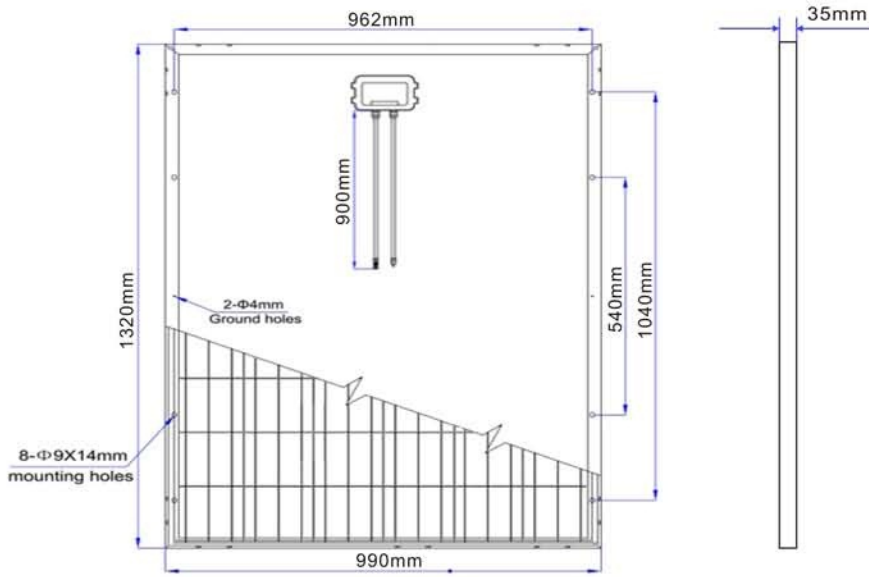
Operating Temperature	-40°C~+80°C	°C
Storage temperature	from -40°C ~+80°C	°C
Instulation cut voltage	1000	DC
Maximum wind resistance	60m/s	N/m ² or max Km/h
Surface maximum load capacity	200	Kg/m ²
Maximum hail load capacity	25mm	80km/h

EFFICIENCY

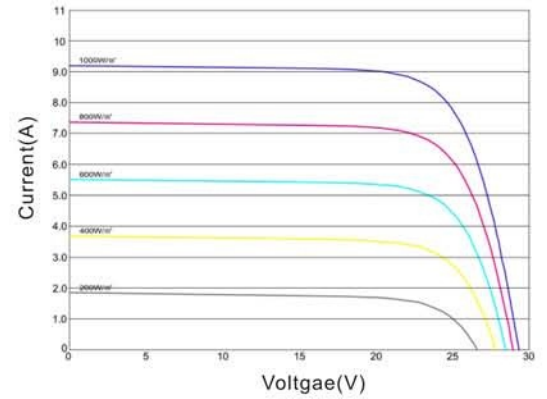
-  Low voltage-temperature coefficient allows higher power output at high-temperature condition
-  High efficient, high reliable solar cells ensure our product output stability



Physical Characteristics



I-V Curve



Laminating Data

Cell dimension (mm)	156 x 156
Dimensions (mm)	1320x990x40
Number of cells	48(6*8)
Weight	16Kg
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 ²
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.