

# Monocrystalline Solar PV Module

36 Cells, 120W



**+3W** Power and tolerance  
0~+3W positive power tolerance guaranteed



**Anti PID** Resistance to the PID



**Stronger surface resistance to mechanical loads**  
Passed the certification of 6000Pa snow load and 3600Pa wind load



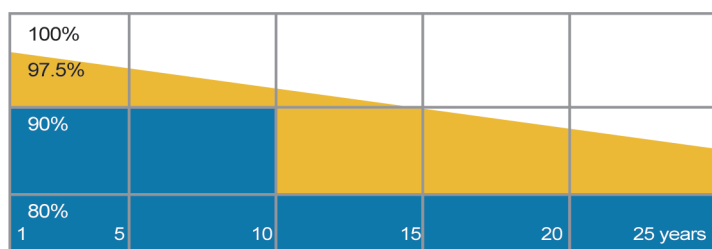
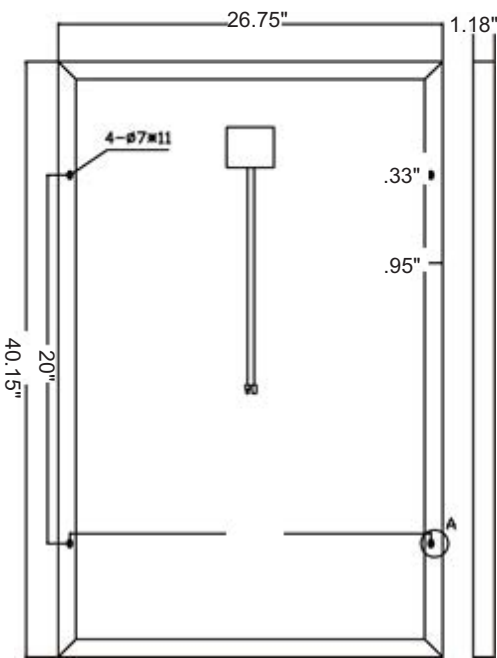
**Designed for harsh environments**



**Hail**  
Passed a hail test with a diameter of 45mm and a speed of 30.7m/s



**Lower temperature coefficient**  
Better temperature coefficient allows for power attenuation at high temperature



- Linear power output warranty
- Industry quality assurance
- 12** 12 years of product material and process quality
- 25** 25 years linear power output warranty



MODEL	PV120MONO
Maximum Power/Pmax(Wp)	120
Optimum Operating Voltage/Vmp(V)	18.5
Optimum Operating Current/Imp(A)	6.49
Open Circuit Voltage/Voc(V)	22.20
Short Circuit Current/Isc(A)	7.14
Cell Efficiency	19.84%
Module Efficiency	17.30%
Power Tolerance	0~+3W
Maximum Series Fuse Rating(A)	15A
Maximum System Voltage	1000VDC

## DATA

Operating Module Temperature	-40°C to +80°C	°C
Storage Temperature	From -40°C to +80°C	°C
Insulation 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	5mm	80km/h

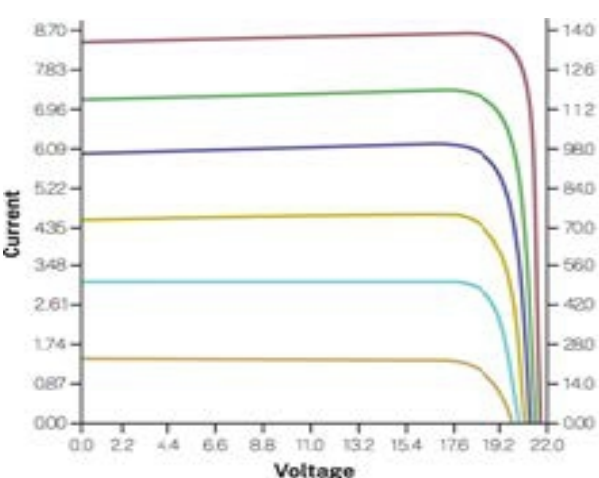
## MECHANICAL CHARACTERISTICS

## TEMPERATURE CHARACTERISTICS

Number of cells	36(4x9)
Cell Dimension(mm)	158.75*105.83
Dimension(inch)	40.15x 26.75 x 1.37
Weight(lb)	17
Frame Material	Clear anodized aluminum frame
Thickness of Glass	3.2mm tempered glass
Frame	Anodized aluminum alloy
Laminating Material	EVA (Light transmittance more than 92%)
Backsheet Material	TPT (High weather resistance)
Junction Box	Ip65 (1500V system voltage available)
Output cable	90cm 2x4.0mm <sup>2</sup> MC4 connector
Bus Bar	5BB

Nominal Operating Cell Temperature (NOTC)	45±2°C
Temperature Coefficient of Pmax	-0.37%/°C
Temperature Coefficient of Voc	-0.29%/°C
Temperature Coefficient of Isc	-0.048%/°C

## I-V CURVE



- Sun:1200, Vmp:18.079, Pmax 138.714
- Sun:1000, Vmp:18.501, Pmax: 120.016
- Sun:800, Vmp:18.350, Pmax: 99.841
- Sun:600, Vmp:18.311, Pmax 74.998
- Sun:400, Vmp:18.156, Pmax:50.143
- Sun:200, Vmp:17.590, Pmax:23.103