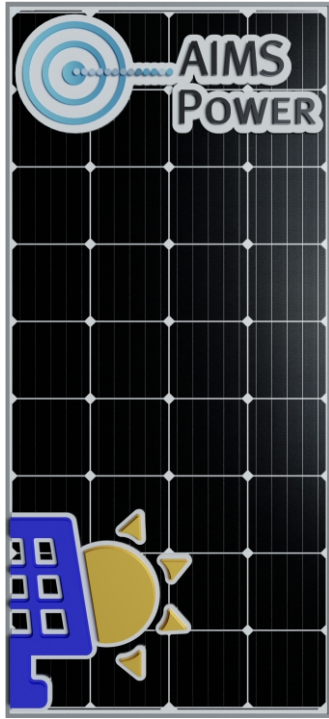
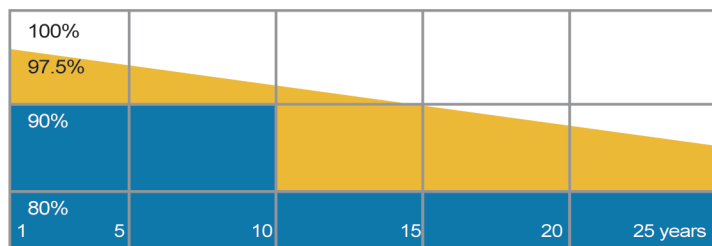
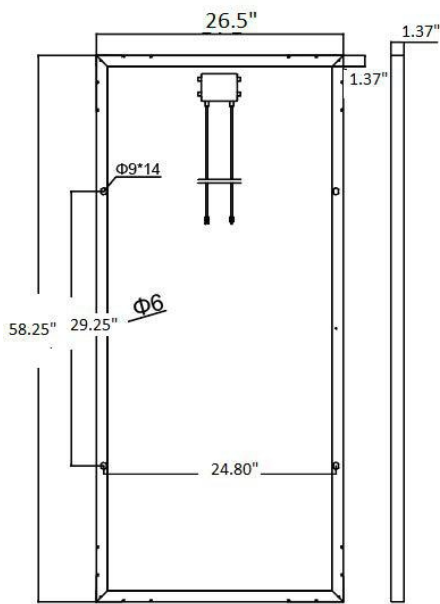


# Monocrystalline Solar PV Module

36 Cells, 190W



- +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



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



MODEL	PV190MONO
Maximum Power/Pmax(Wp)	190
Optimum Operating Voltage/Vmp(V)	18.7
Optimum Operating Current/Imp(A)	10.16
Open Circuit Voltage/Voc(V)	22.44
Short Circuit Current/IsC(A)	10.92
Cell Efficiency	21.69%
Module Efficiency	19.16%
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(4*9)
Cell Dimension(mm)	156*52
Dimension(inch)	58.25 x 26.5 x 1.37
Weight(lb)	26.5
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

