Monocrystalline Solar PV Module 36 Cells, 190W







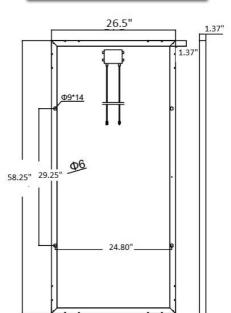






















MODEL	PV190MONO
Maximum Power/Pmax(Wp)	190
Optimum Operating Voltage/Vmp(V)	18.7
Optimum Operating Current/Imp(A)	10.16
Open Circuit Voltage/Voc(V)	22.44
Short Circuit Current/Isc(A)	10.92
Cell Efficiency	21.69%
Module Efficiency	19.16%
Power Tolerance	0~+3W
Maximum Series Fuse Rating(A)	15A
Maximum 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/m² or max KM/h
Surface Maximum Load Capacity	200	Kg/m²
Maximum Hail Load Capacity	5mm	80km/h

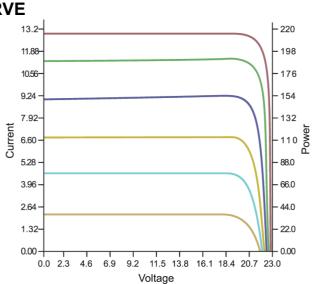
MECHANICAL CHARACTERISTICS

TEMPERATURE CHARACTERISTICS

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Number of cells	36(12*3)	
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	lp65 (1500V system voltage available)	
Output cable	90cm 2x4.0mm² 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:18.02, Pmax 211.742
- Sun:1000,Vmp:18.704, Pmax: 190.107
- Sun:800,Vmp:18.798, Pmax: 154.025
- Sun:600,Vmp:18.755, Pmax 114.901
- Sun:400,Vmp:18.656, Pmax:76.138
- Sun:200,Vmp:18.245, Pmax:36.025