



## SM-80 Monocrystalline Solar Panel

### Product Description

SM-80 Monocrystalline Solar Panels are made from a single crystal seed, either found in nature or created in a laboratory. As a result, they have a more uniform and smoother appearance than polycrystalline modules. Since the efficiency rates of these SM-80 Monocrystalline Solar Panels are typically 15-20%, which up to four times the amount of electricity as thin-film solar panels, they require the least amount of space compared to any other types. What's more, SM-80 Monocrystalline Solar Panels tend to perform better than similarly rated polycrystalline solar panels at low-light conditions. Also, it performs well in withstanding high wind-pressure, snow load and extreme temperature and lower degradation under light exposure, all above make it popular with our customers.

### Features:

- High conversion efficiency.
- Low power tolerance of 0~+3%.
- Low degradation under light exposure.
- Can withstand high wind-pressure, snow load and extreme temperature.
- Passing IEC61215 2400Pa mechanical load test.

### Benefits of Monocrystalline Solar Panel:

- Monocrystalline Solar Panels have the highest efficiency rates since they are made out of



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the highest-grade silicon. The efficiency rates of Monocrystalline Solar Panels are typically 15-20%. Monocrystalline Solar Panels produce up to four times the amount of electricity as thin-film solar panels.

- Monocrystalline Solar Panels are space-efficient. Since these solar panels yield the highest power outputs, they also require the least amount of space compared to any other types.
- Monocrystalline Solar Panels live the longest. Most solar panel manufacturers put a 25-year warranty on their Monocrystalline Solar Panels.
- Tend to perform better than similarly rated poly panels at low-light conditions.

Detailed Parameters:

Model Type	SM-80
Dimensions	905*668*35
Peak Power(Pmax)	80
Maximum Power Voltage(Vmp)	18.69
Maximum Power Current(Imp)	4.30
Open Circuit Voltage(Voc)	22.43
Short Circuit Current(Isc)	4.73
Cells Efficiency(%)	16.02
Module Efficiency(%)	13.23
Maximum System Voltage(V)	1000
Maximum Series Fuse Rating(A)	15

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Power Tolerance	0~+3%
Pmax Temperature Coefficients(W/°C)	-0.450%
Voc Temperature Coefficients(V/°C)	-0.350%
Lsc Temperature Coefficients(A/°C)	+0.040%
NOCT Nominal Operating Cell Temperature(°C)	47 ± 2
Operating and Storage Temperature(°C)	-40~+85
Standard Test Conditions(STC)	1000W/m <sup>2</sup> , AM1.5; 25+/-2°C
Warranty on product materials and processing	10 years
Power output warranty	10years:90%,25years:85%
Certifications	TUV、CE、CQC、UL
Products Certifications	IEC61215、IEC61730、MCS CEC
Factory Certifications	ISO9001:2008、ISO14001、ISO18001

Product Display:



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## Application:

- On-grid residential roof-tops.
- On-grid commercial/industrial roof-tops
- Solar power plants
- Off-grid system
- Other on-grid applications