



SM-5 Monocrystalline Solar Panel

Product Description

SM-5 Monocrystalline Solar Panel have been the go-to choice for many years. They are among the oldest, most efficient and most dependable ways to produce electricity from the sun. Each module of SM-5 Monocrystalline Solar Panel is made from a single silicon crystal, and is more efficient than the newer and cheaper polycrystalline and thin-film PV panel technologies. Since they are made out of the highest-grade silicon, the efficiency rates of SM-5 Monocrystalline Solar Panels are typically 15-20%, which also means that they require the least amount of space compared to any other types. What's more, the better performance of it in withstanding high wind-pressure, snow load and extreme temperature and lower degradation under light exposure, all makes 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-5
Dimensions	260*210*18
Peak Power(Pmax)	5
Maximum Power Voltage(Vmp)	18.57
Maximum Power Current(Imp)	0.27
Open Circuit Voltage(Voc)	22.64
Short Circuit Current(Isc)	0.29
Cells Efficiency(%)	17.25
Module Efficiency(%)	9.16
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 ² , 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