



SM-45 Monocrystalline Solar Panel

Product Description

SM-45 Monocrystalline Solar Panels have been the go-to choice for many years as it has the highest efficiency rates since they are made out of the highest-grade silicon. The efficiency rates of SM-45 Monocrystalline Solar Panels are typically 15-20%, which up to four times the amount of electricity as thin-film solar panels. Since these SM-45 Monocrystalline Solar Panels yield the highest power outputs, they require the least amount of space compared to any other types. Also, SM-45 Monocrystalline Solar Panels live the longest and will save lot of your time to replace it. 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-45
Dimensions	590*668*30
Peak Power(Pmax)	45.00
Maximum Power Voltage(Vmp)	18.01
Maximum Power Current(Imp)	2.53
Open Circuit Voltage(Voc)	21.61
Short Circuit Current(Isc)	2.78
Cells Efficiency(%)	15.63
Module Efficiency(%)	11.42
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