



常州嘉阳新能源科技有限公司

Changzhou Sunday Energy Co.,Ltd

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Add:No.888,Chengfeng Road,Jintan City,Jiangsu Province

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## SOLAR MODULE

# SD-50M

### FEATURES

1. Low voltage-temperature coefficient enhances high-temperature operation.
2. Exceptional low-light performance and high sensitivity to light across the entire solar spectrum maximize yearly energy delivery.
3. 25-year limited warranty on power output, 2-year Limited warranty on materials and workmanship.

### MATERIALS

1. Highest quality, high-transmission tempered glass provides enhanced stiffness and impact resistance.
2. Advanced EVA encapsulation system with triple-layer back sheet meets the most stringent safety requirements for high-voltage operation.
3. A sturdy, anodized aluminum frame allows modules to be easily roof-mounted with a variety of standard mounting systems.
4. Ultra reliable bypass diodes prevent damage through overheating due to shaded or defective cells.



### BENEFITS

1. Manufactured in an ISO9001:2000 certified plant.
2. High efficiency, high safety, high reliability.
3. Output power tolerance of +/-3%.
4. CE、IEC、TUV、UL、MCS



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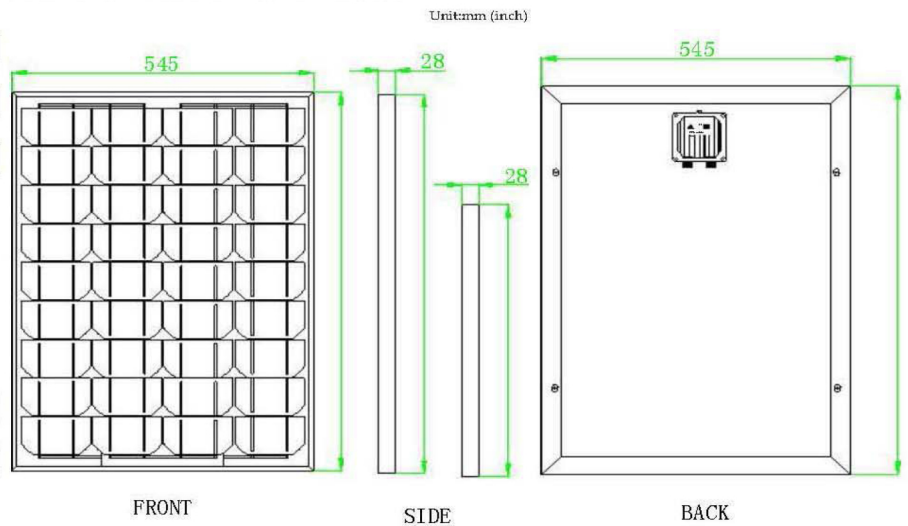
ELECTRICAL SPECIFICATIONS

Model type	SD-50M(36)
Peak power (Pmax)	50W
Cell Efficiency	15.50%
Module Efficiency	12.24%
Maximum power voltage (Vmp)	17.50V
Maximum power current (Imp)	2.86A
Open circuit voltage (Voc)	21.50V
Short circuit current (Isc)	3.36A
Power Tolerance	-1 to +3%
Maximum system voltage	DC 1000V
Normal Operating Cell Temperature	45.3± 2 ℃
Series fuse rating (A)	10A
Number of bypass diode	2

MECHANICAL SPECIFICATIONS

Cell type	125mm × 62.5mm
Number of cells	36 cells in series
Weight	4.95kg
Dimensions	545 × 630 × 28mm
Max Load	5400Pascals ( 112 lb/ft 2)

PHYSICAL CHARACTERISTICS

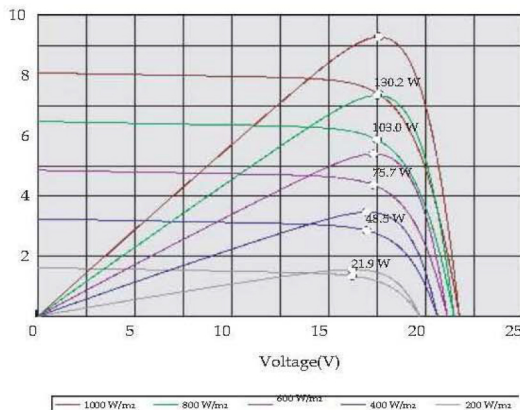


TEMPERATURE COEFFICIENT

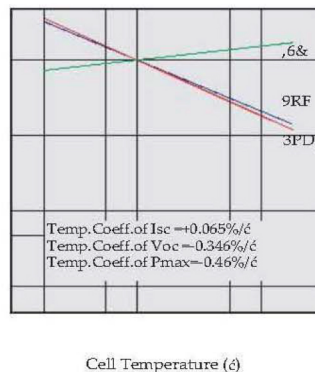
Temp. Coeff. of Isc (TK Isc)	0.065 %/℃
Temp. Coeff. of Voc (TK Voc)	-0.346 %/℃
Temp. Coeff. of Pmax (TK Pmax)	-0.46 %/℃

ELECTRICAL CHARACTERISTICS

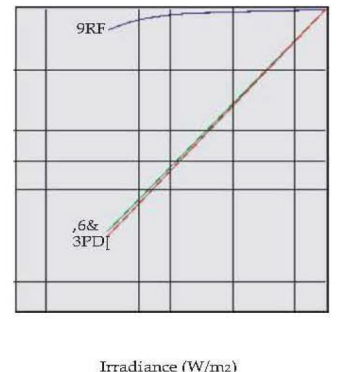
Electrical performance (cell temperature:25℃)



Temperature dependence of Isc, Voc and Pmax



Irradiance dependence of Isc, Voc and Pmax (cell temperature:25℃)



Note: the specifications are obtained under the Standard Test Conditions (STCs): 1000 W/m<sup>2</sup> solar irradiance, 1.5 Air Mass, and cell temperature of 25 C.

The NOCT is obtained under the Test Conditions : 800 W/m<sup>2</sup>, 20°C ambient temperature, 1 m/s wind speed, AM 1.5 spectrum.

Please contact [sales@sundayenergy.cn](mailto:sales@sundayenergy.cn) for technical support. The parameters are for reference only, and are subject to change without notice or obligation.