



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

SOLAR MODULE

SD-160M SD-150M SD-140M SD-135M SD-130M

SD-120M

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、MC



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ELECTRICAL SPECIFICATIONS

Model type	SD-160M	SD-150M	SD-140M	SD-135M	SD-130M	SD-120M
Peak power (Pmax)	160W	150W	140W	135W	130W	120W
Cell Efficiency	18.61%	17.45%	16.47%	15.55%	15.29%	14.12%
Module Efficiency	15.99%	15.00%	13.97%	13.46%	12.98%	12.10%
Maximum power voltage (Vmp)	18.13V	17..85V	17.60V	17.60V	17.41V	17.40V
Maximum power current (Imp)	8.83A	8.41A	7.95A	7.67A	7.47A	6.89A
Open circuit voltage (Voc)	21.96V	21.96V	21.96V	21.96V	21.75V	21.75V
Short circuit current (Isc)	9.05A	8.61A	8.41A	8.41A	8.10A	7.63A
Power Tolerance	-1 to +3%					
Maximum system voltage	DC 1000V					
Normal Operating Cell Temperature	45.3± 2℃					
Series fuse rating (A)	15A					
Number of bypass diode	3					

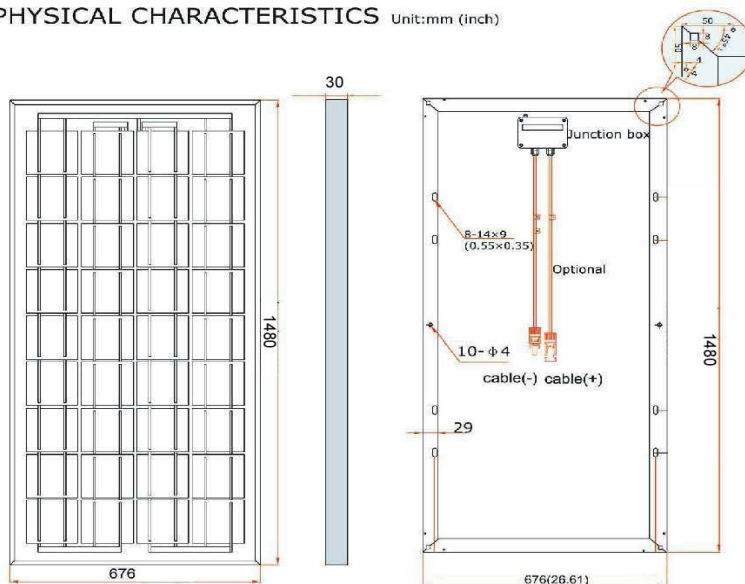
MECHANICAL SPECIFICATIONS

Cell type	156mm x 156mm
Number of cells	36 cells in series
Weight	11.18 kg
Dimensions	1480*676*30mm (58.3×26.6×1.97 inch)
Max Load	5400Pascals (112 lb/ft ²)

TEMPERATURE COEFFICIENT

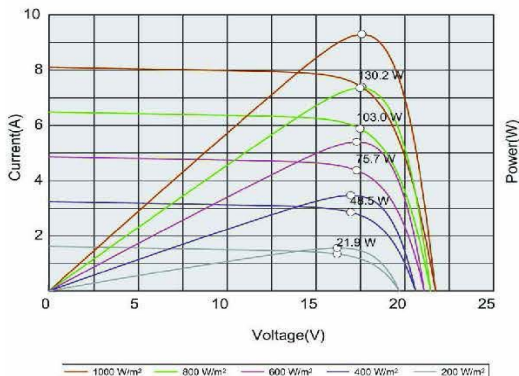
Temp. Coeff. of Isc (TK Isc)	0.065 %/℃
Temp. Coeff. of Voc (TK Voc)	-0.346 %/℃
Temp. Coeff. of Pmax (TK Pmax)	-0.46 %/℃

PHYSICAL CHARACTERISTICS Unit:mm (inch)

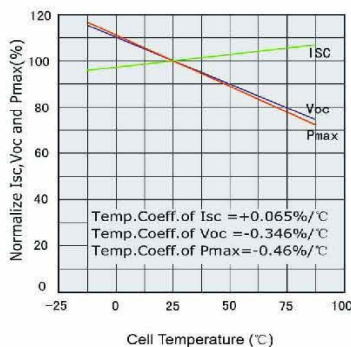


ELECTRICAL CHARACTERISTICS

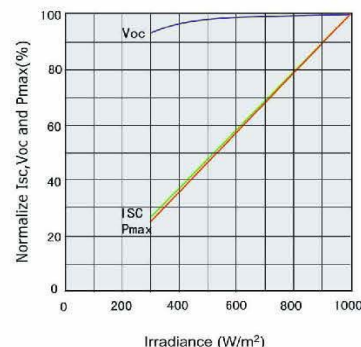
Electrical performance
(cell temperature:25℃)



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 (STC): 1000 W/m² solar irradiance, 1.5 Air Mass, and cell temperature of 25 C.

The NOCT is obtained under the Test Conditions : 800 W/m², 20°C ambient temperature, 1 m/s wind speed, AM 1.5 spectrum.

Please contact support@just-solar.net for technical support. The parameters are for reference only, and are subject to change without notice or obligation.