



常州嘉阳新能源科技有限公司

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SOLAR MODULE

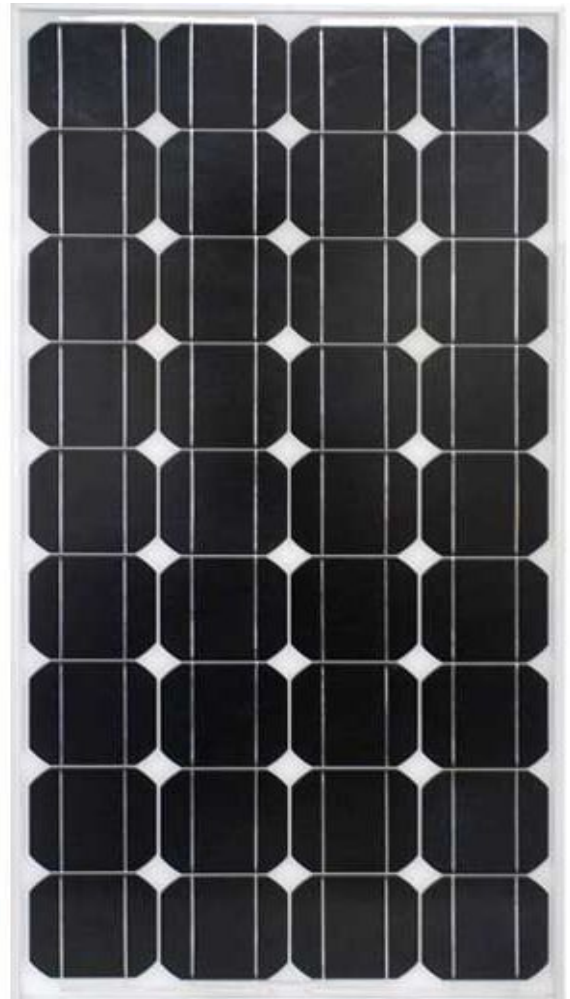
SDM5-70 SDM5-75 SDM5-80 SDM5-100

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

ELECTRICAL SPECIFICATIONS

Model type	SD-100M(36)	SD-80M(36)	SD-75M(36)	SD-70M(36)
Peak power (Pmax)	100W	80W	75W	70W
Cell Efficiency	16.38%	15.42%	14.46%	13.49%
Module Efficiency	15.20%	12.18%	11.42%	10.66%
Maximum power voltage (Vmp)	18.05V	17.64V	17.40V	16.90V
Maximum power current (Imp)	5.54A	4.54A	4.31A	4.14A
Open circuit voltage (Voc)	22.44V	21.88V	21.73V	21.45V
Short circuit current (Isc)	5.69A	4.98A	4.72A	4.45A
Power Tolerance	-1 to +3%			
Maximum system voltage	DC 600V			
Normal Operating Cell Temperature	44.4± 2℃			
Series fuse rating (A)	10A			
Number of bypass diode	3			

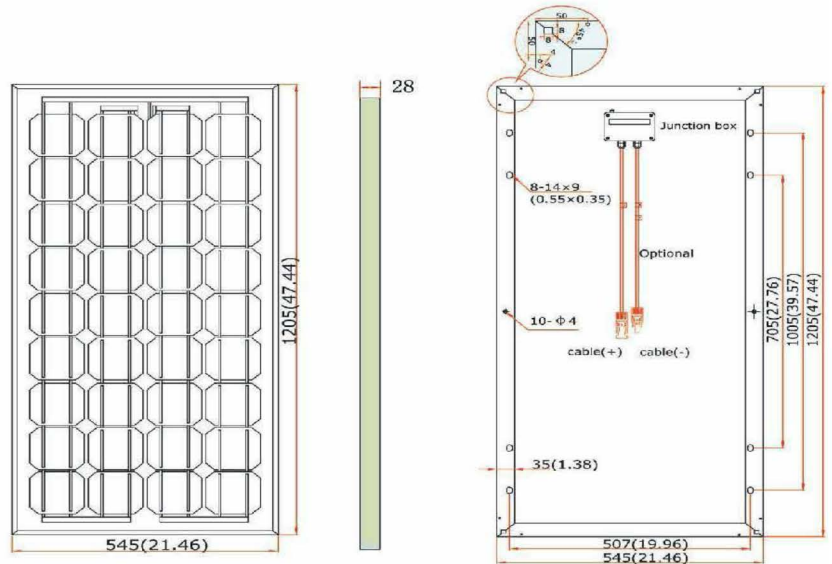
MECHANICAL SPECIFICATIONS

Cell type	125mm x 125mm
Number of cells	36 cells in a series
Weight	8.23 kg (18.14lbs)
Dimensions	1205×545×28mm (47.44×21.46×1.38inch)
Max Load	2400Pascals (50 lb/ft ²)

TEMPERATURE COEFFICIENT

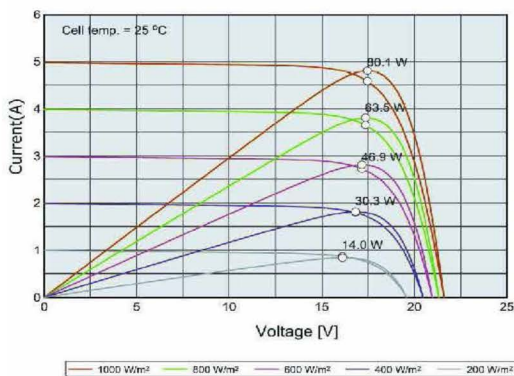
Temp. Coeff. of Isc (TK Isc)	0.042 %/℃
Temp. Coeff. of Voc (TK Voc)	-0.336 %/℃
Temp. Coeff. of Pmax (TK Pmax)	-0.47 %/℃

PHYSICAL CHARACTERISTICS Unit:mm (inch)

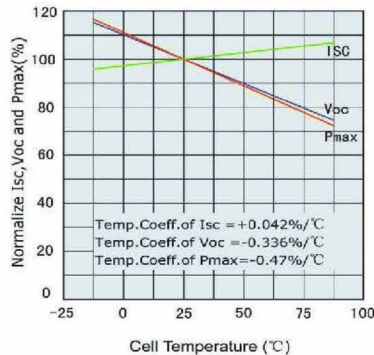


ELECTRICAL CHARACTERISTICS

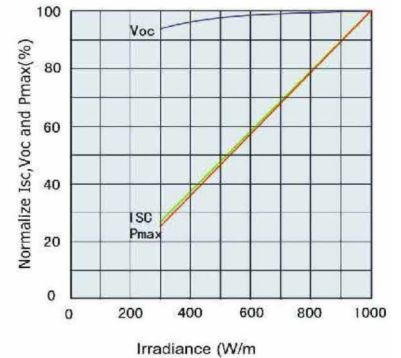
Electrical performance
(cell temperature:25°C)



Temperature dependence of Isc, Voc and Pmax



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



Note: the specifications are obtained under the Standard Test Conditions (STCs): 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 sales@sundayenergy.cn for technical support. The parameters are for reference only, and are subject to change without notice or obligation.