



常州嘉阳新能源科技有限公司

Changzhou Sunday Energy Co.,Ltd

Tel:+86 519 68081229 Website: www.sundayenergy.cn

Fax:+86 519 68081230 Email:sales@sundayenergy.cn

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

SOLAR MODULE

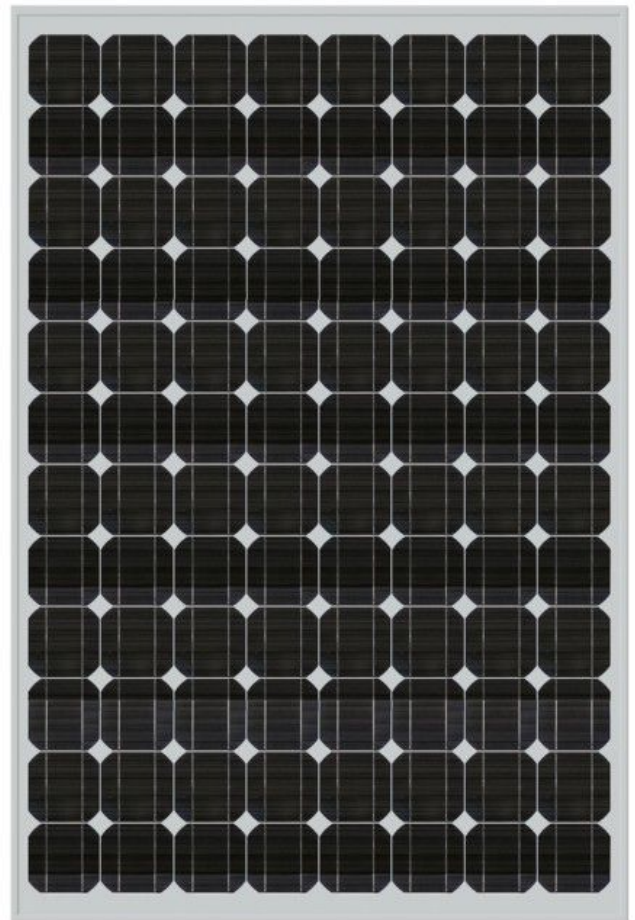
SDM5-210 SDM5-220 SDM5-230 SDM5-240 SDM5-250

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

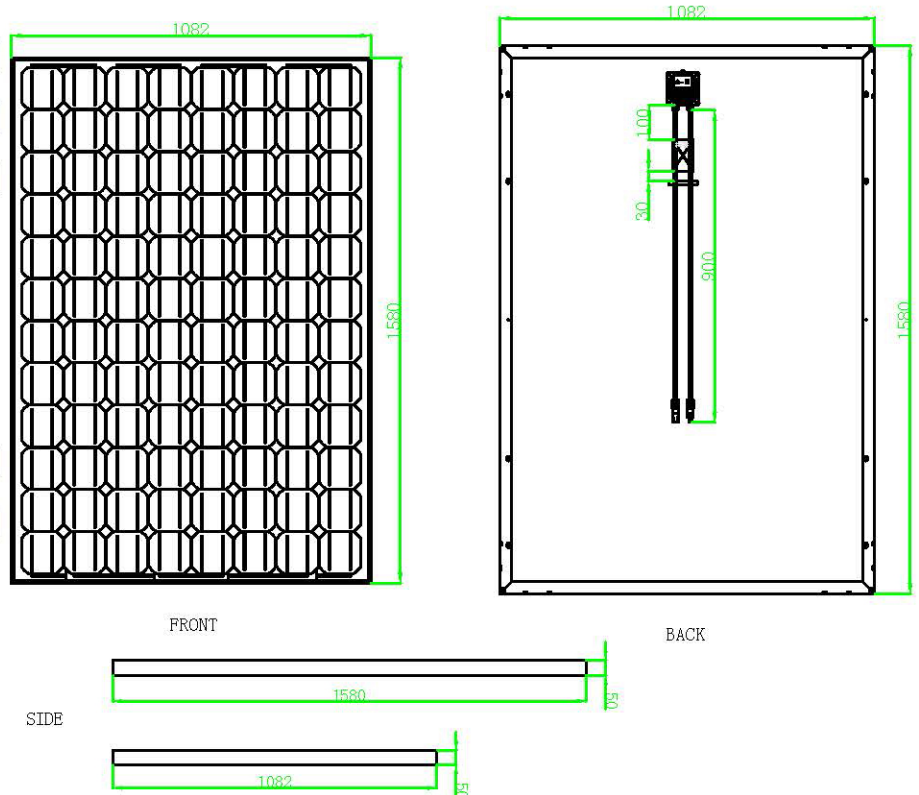
ELECTRICAL SPECIFICATIONS

Model type	SDM5-210	SDM5-220	SDM5-230	SDM5-240	SDM5-250
Peak power (Pmax)	210W	220W	230W	240W	250W
Cell Efficiency	14.79%	15.42%	16.12%	16.83%	17.53%
Module Efficiency	12.28%	12.87%	13.45%	14.04%	14.62%
Maximum power voltage (Vmp)	46.60V	46.60V	47.00V	47.40V	48.00V
Maximum power current (Imp)	4.51A	4.73A	4.90A	5.07A	5.21A
Open circuit voltage (Voc)	57.60V	57.80V	58.30V	58.70V	59.00V
Short circuit current (Isc)	4.85A	4.93A	5.05A	5.33A	5.69A
Power Tolerance	-1 to +3%				
Maximum system voltage	DC 1000V				
Normal Operating Cell Temperature	45.3±2°C				
Series fuse rating (A)	15A				
Number of bypass diode	3				

MECHANICAL SPECIFICATIONS

Cell type	125mm x 125mm
Number of cells	96 cells in series
Weight	22.50kg
Dimensions	1580×1082×50 mm
Max Load	5400Pascals (112 lb/ft ²)

PHYSICAL CHARACTERISTICS Unit:mm (inch)

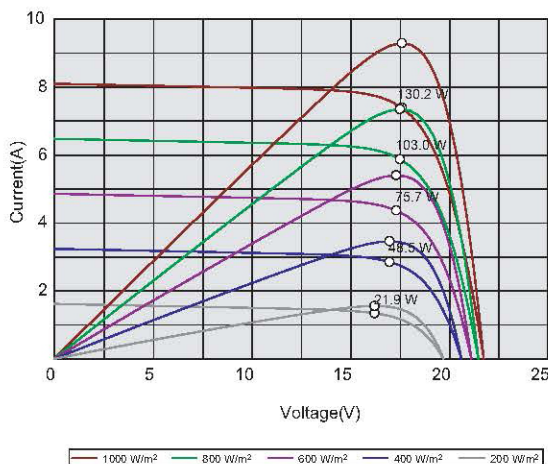


TEMPERATURE COEFFICIENT

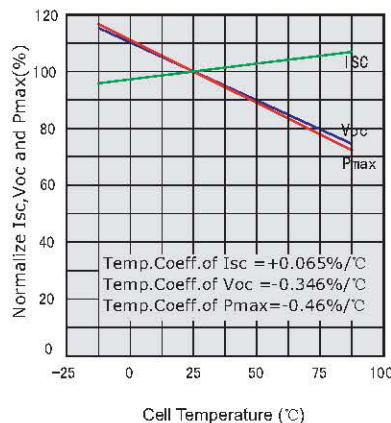
Temp. Coeff. of Isc (TK Isc)	0.065 %/°C
Temp. Coeff. of Voc (TK Voc)	-0.346 %/°C
Temp. Coeff. of Pmax (TK Pmax)	-0.46 %/°C

ELECTRICAL CHARACTERISTICS

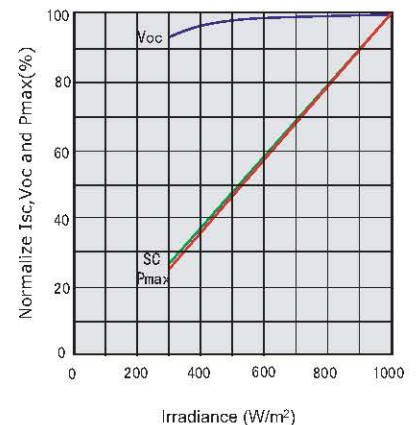
Electrical performance
(cell temperature:25°C)



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.