



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

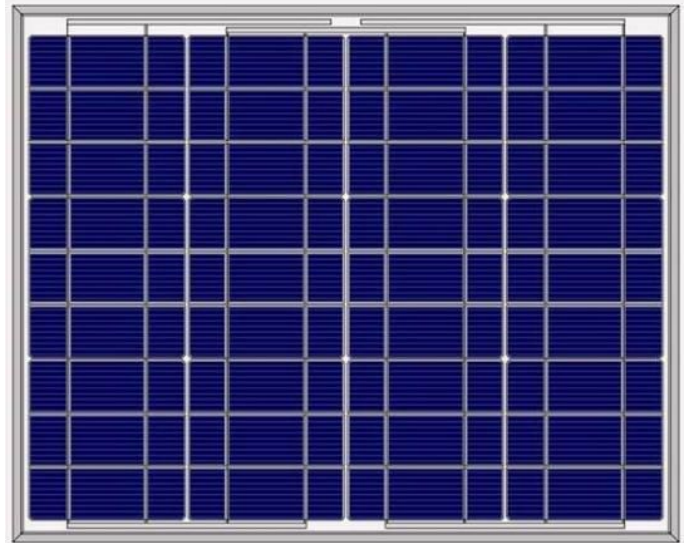
### SD-40P SD-45P

#### 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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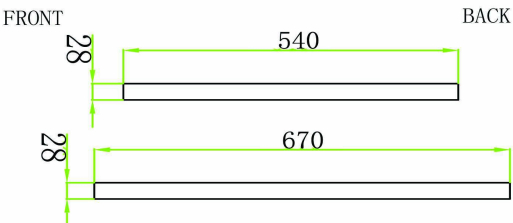
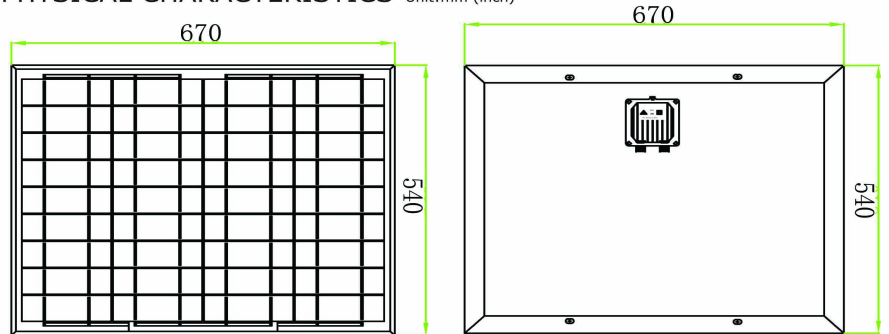
## ELECTRICAL SPECIFICATIONS

Model type	SD-40P	SD-45P
Peak power (Pmax)	40W	45W
Cell Efficiency	13.69%	15.41%
Module Efficiency	11.06%	12.44%
Maximum power voltage (Vmp)	17.30V	17.30V
Maximum power current (Imp)	2.32A	2.61A
Open circuit voltage (Voc)	21.30V	21.50V
Short circuit current (Isc)	2.57A	2.87A
Power Tolerance	-1 to +3%	
Maximum system voltage	DC 1000V	
Normal Operating Cell Temperature	45.3 ±2 °C	
Series fuse rating (A)	10A	
Number of bypass diode	2	

## MECHANICAL SPECIFICATIONS

Cell type	156mm x 52mm
Number of cells	36 cells in series
Weight	3.9 kg
Dimensions	540 x 670 x 28 mm
Max Load	5400Pascals ( 112 lb/ft <sup>2</sup> )

## PHYSICAL CHARACTERISTICS Unit:mm (inch)

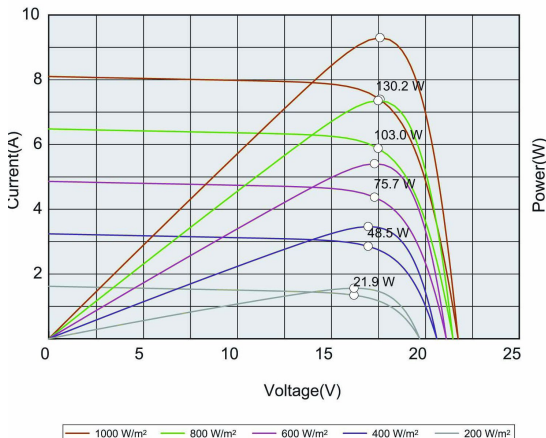


## TEMPERATURE COEFFICIENT

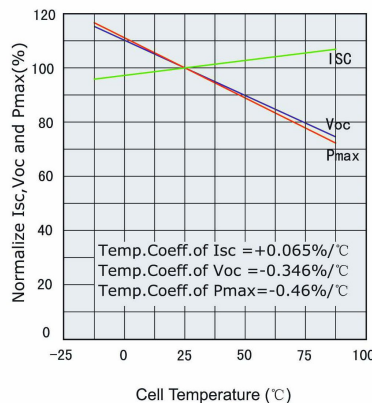
Temp. Coeff. of Isc (TK Isc)	0.065 %/°C
Temp. Coeff. of Voc (TK Voc)	-0.346 %/°C
Temp. Coeff. of Pmax (TK Pmax)	-0.46 %/°C

## 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)

