



常州嘉阳新能源科技有限公司

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SOLAR MODULE

SD-35M SD-40M SD-45M

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

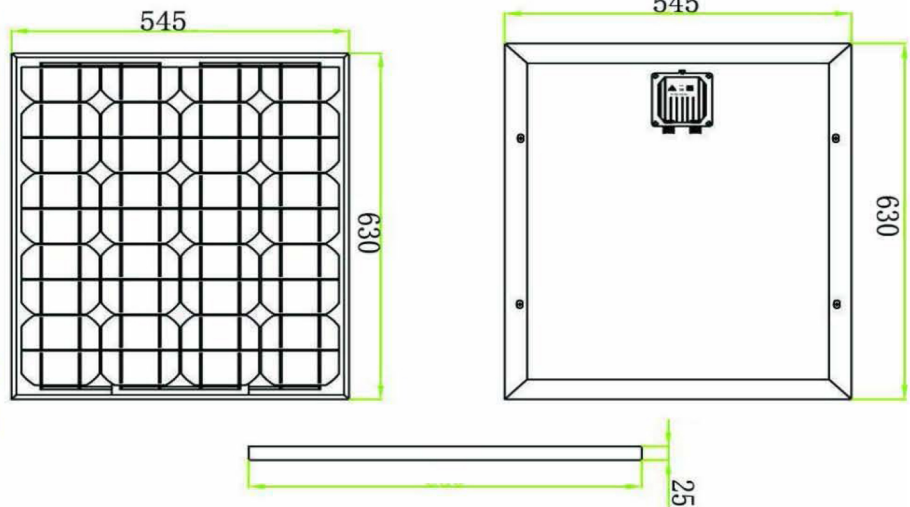
ELECTRICAL SPECIFICATIONS

Model type	SD-35M(36)	SD-40M(36)	SD-45M(36)
Peak power (Pmax)	35W	40W	45W
Cell Efficiency	12.57%	14.36%	16.16%
Module Efficiency	10.27%	11.74%	13.23%
Maximum power voltage (Vmp)	17.50V	17.50V	17.50V
Maximum power current (Imp)	2.01A	2.29A	2.57A
Open circuit voltage (Voc)	21.50V	21.50V	21.60V
Short circuit current (Isc)	2.26A	2.58A	2.91A
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		1	

MECHANICAL SPECIFICATIONS

Cell type	125mm × 62.5mm
Number of cells	36 cells in series
Weight	4.35kg
Dimensions	545×630×25 mm
Max Load	5400Pascals (112 lb/ft 2)

PHYSICAL CHARACTERISTICS Unit:mm (inch)



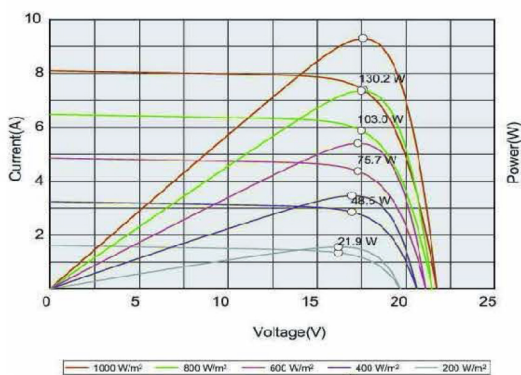
TEMPERATURE COEFFICIENT

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

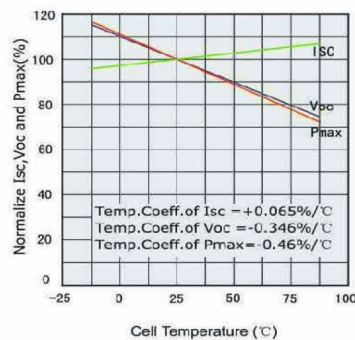
ELECTRICAL CHARACTERISTICS

SIDE

Electrical performance
(cell temperature:25°C)



Temperature dependence of Isc,
Voc and Pmax



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

