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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Changzhou Sunday Energy Co., Ltd.**

**SDM-550-600**

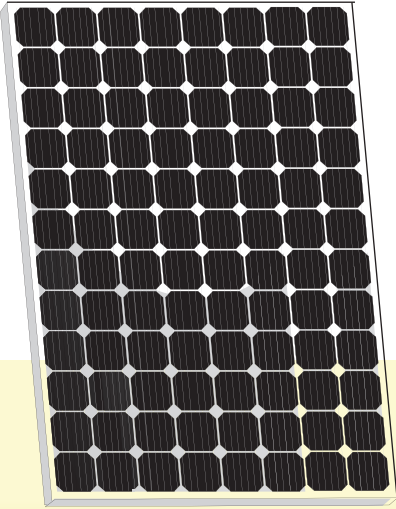
**SDM-570**

Also available on the web at  
[EnergyPal.com/changzhou-sunday-energy-co-ltd-solar-panels/sdm-570](http://EnergyPal.com/changzhou-sunday-energy-co-ltd-solar-panels/sdm-570)

# 6BB BIG CELL

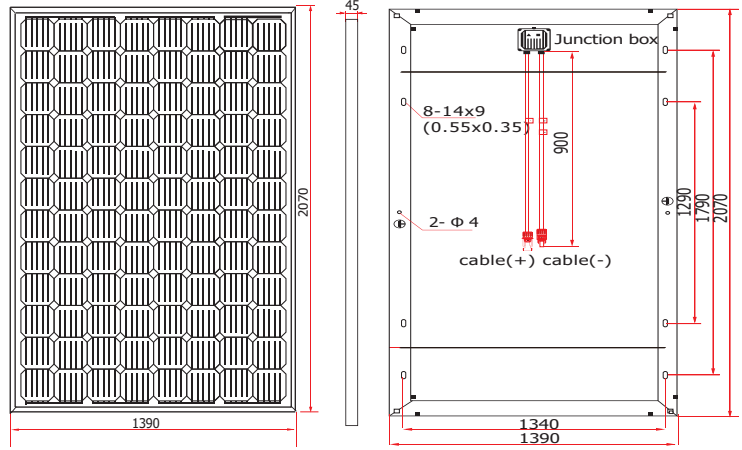


## MONOCRYSTALLINE MODULES 550W - 600W



SOLAR MODULE:  
SDM550, SDM560, SDM570  
SDM580, SDM590, SDM600

### PHYSICAL CHARACTERISTICS Unit: mm (inch)



### ELECTRICAL SPECIFICATIONS

Model Type	SDM550	SDM560	SDM570	SDM580	SDM590	SDM600
Nominal Maximum Power (Pmax)	550W	560W	570W	580W	590W	600W
Optimum Operating Voltage (Vmp)	49.05V	49.57V	50.06V	50.50V	50.98V	51.51V
Optimum Operating Current (Imp)	11.21A	11.30A	11.39A	11.49A	11.57A	11.65A
Open Circuit Voltage (Voc)	59.62V	60.13V	60.55V	60.94V	61.32V	61.73V
Short Circuit Current (Isc)	11.68A	11.69A	11.88A	12.06A	12.28A	12.50A
Module Efficiency	19.12%	19.46%	19.81%	20.16%	20.51%	20.85%
Power Tolerance	0 to +6W					
Maximum System Voltage	DC 1500V					
Operating Temperature	-40°C ~ +85°C					
Maximum Series Fuse Rating	30A					
Number of Bypass Diode	4					

### MECHANICAL DATA

Cell Type	166mm x 166mm
Cell Arrangement	96 cells in series
Dimensions	2070 x 1390 x 45 mm (With bar fixed in the middle)
Weight	30kg
Front Cover	3.2mm tempered glass
Frame Material	Anodized aluminium alloy
J- Box	IP67/IP68, 4 diodes
Cable	4mm (IEC) / 12AWG (UL), 900mm (650mm is optional)
Connectors	MC4 or MC4 compatible

### TEMPERATURE CHARACTERISTICS

Temperature Coefficient (Pmax)	-0.370% / °C
Temperature Coefficient (Voc)	-0.290% / °C
Temperature Coefficient (Isc)	0.05% / °C
Nominal Operating Cell Temperature	45.3 ± 2 °C

### ELECTRICAL CHARACTERISTICS

(SDM600)

Current-Voltage Characteristic (I-V Curve)

