

**For a Free Quote:**

**Web: [EnergyPal.com/solar](http://EnergyPal.com/solar)**

**Call: 1-800-990-3725**

**Email: [contact@energypal.com](mailto:contact@energypal.com)**

# **EnergyPal**

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

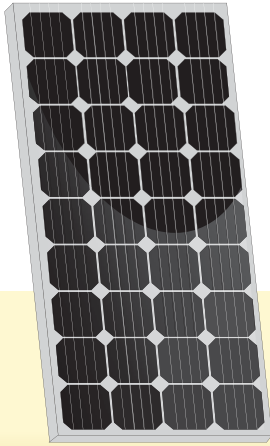
**Changzhou Sunday Energy Co., Ltd.**

**SDM-150-185**

**SDM-150**

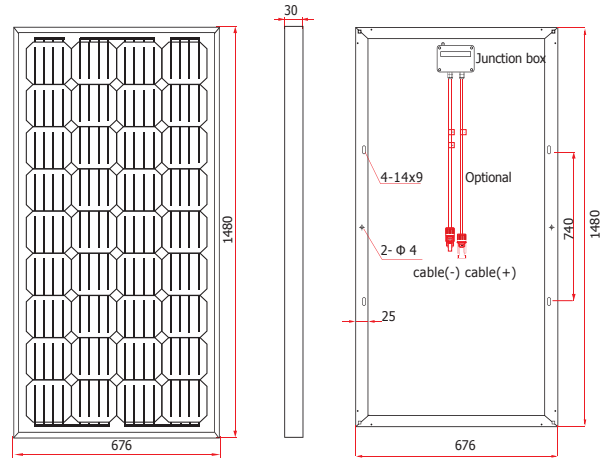
Also available on the web at  
[EnergyPal.com/changzhou-sunday-energy-co-ltd-solar-panels/sdm-150](http://EnergyPal.com/changzhou-sunday-energy-co-ltd-solar-panels/sdm-150)

# MONOCRYSTALLINE MODULES 150W - 185W



SOLAR MODULE:  
SSDM-150, SDM-160, SDM-170, SDM-180, SDM-185

## PHYSICAL CHARACTERISTICS Unit: mm (inch)



## ELECTRICAL SPECIFICATIONS

Model Type	SDM-150	SDM-160	SDM-170	SDM-180	SDM-185
Nominal Maximum Power (Pmax)	150W	160W	170W	180W	185W
Optimum Operating Voltage (Vmp)	17.85V	18.08V	18.12V	18.15V	18.21V
Optimum Operating Current (Imp)	8.41A	8.85A	9.38A	9.92A	10.16A
Open Circuit Voltage (Voc)	21.96V	22.11V	22.46V	22.64V	22.64V
Short Circuit Current (Isc)	8.61A	9.05A	9.70A	10.19A	10.47A
Module Efficiency	15.00%	16.00%	17.00%	18.00%	18.50%
Cell Efficiency	17.45%	18.61%	18.80%	20.00%	21.00%
Power Tolerance			0 to +5W		
Maximum System Voltage			DC 1000V		
Operating Temperature			-40°C ~ +85°C		
Maximum Series Fuse Rating			15A		
Number of Bypass Diode			2		

## MECHANICAL DATA

Cell Type	156mm x 156mm
Cell Arrangement	36 cells in series
Dimensions	1480 x 676 x 30 mm
Weight	11.18kg
Front Cover	3.2mm tempered glass
Frame Material	Anodized aluminium alloy
J- Box	IP65, 2 diodes
Cable	2.5mm (IEC) / 12AWG (UL), 900mm (650mm is optional)
Connectors	MC4 or MC4 compatible

## TEMPERATURE CHARACTERISTICS

Temperature Coefficient (Pmax)	-0.420% / °C
Temperature Coefficient (Voc)	-0.346% / °C
Temperature Coefficient (Isc)	0.065% / °C
Normal Operating Cell Temperature	45.3 ± 2 °C

## ELECTRICAL CHARACTERISTICS

(SDM-185)

Current-Voltage Characteristic (I-V Curve)

