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# **EnergyPal**

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

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

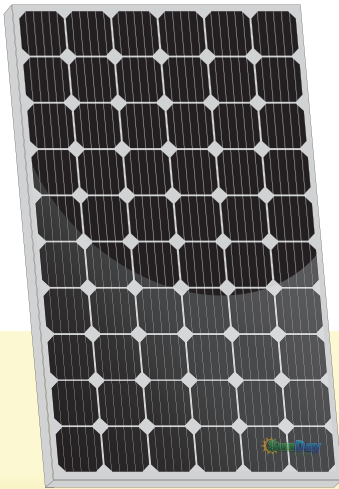
**SDM-260-300**

**SDM-280**

Also available on the web at  
[EnergyPal.com/changzhou-sunday-energy-co-ltd-solar-panels/sdm-280](http://EnergyPal.com/changzhou-sunday-energy-co-ltd-solar-panels/sdm-280)

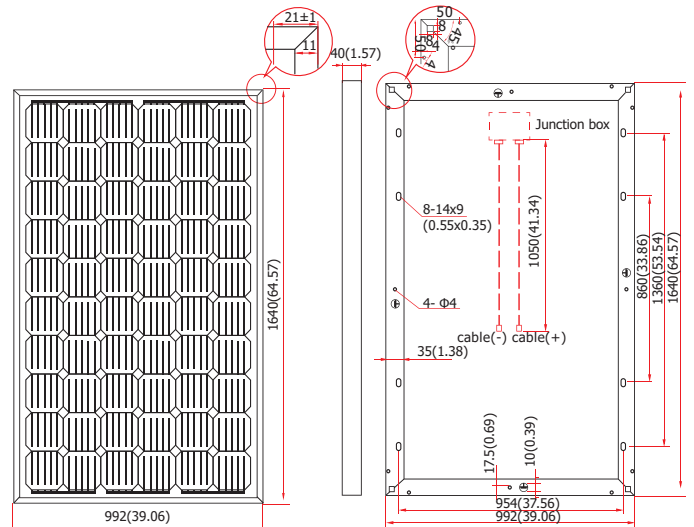
# MONOCRYSTALLINE

## MODULE 260W - 300W



SOLAR MODULE:  
SDM-260, SDM-265, SDM-270, SDM-275, SDM-280,  
SDM-285, SDM-290, SDM-295, SDM-300

### PHYSICAL CHARACTERISTICS Unit: mm (inch)



### ELECTRICAL SPECIFICATIONS

Model Type	SDM-260	SDM-265	SDM-270	SDM-275	SDM-280	SDM-285	SDM-290	SDM-295	SDM-300
Nominal Maximum Power (Pmax)	260W	265W	270W	275W	280W	285W	290W	295W	300W
Optimum Operating Voltage (Vmp)	31.25V	31.30V	31.50V	31.70V	31.80V	32.00V	32.20V	32.42V	32.67V
Optimum Operating Current (Imp)	8.32A	8.47A	8.57A	8.68A	8.81A	8.91A	9.01A	9.10A	9.19A
Open Circuit Voltage (Voc)	37.78V	37.40V	37.60V	37.80V	38.00V	38.20V	38.40V	38.60V	38.80V
Short Circuit Current (Isc)	8.83A	9.08A	9.20A	9.33A	9.45A	9.57A	9.68A	9.75A	9.88A
Module Efficiency	15.88%	16.30%	16.60%	16.90%	17.20%	17.60%	17.90%	18.02%	18.44%
Cell Efficiency	18.10%	18.60%	18.90%	19.10%	19.20%	19.50%	19.80%	20.10%	20.47%
Power Tolerance	0 to +6W								
Maximum System Voltage	DC 1000V								
Operating Temperature	-40°C ~ +85°C								
Maximum Series Fuse Rating	20A								
Number of Bypass Diode	3								

### MECHANICAL DATA

Cell Type	156mm x 156mm
Cell Arrangement	60 cells in series
Dimensions	1640 x 992 x 40 mm
Weight	18.00kg
Front Cover	3.2mm tempered glass
Frame Material	Anodized aluminium alloy
J- Box	IP67, 3 diodes
Cable	4mm (IEC) / 12AWG (UL), 1000mm (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-300)

