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Solar Panel Guide Specification Data Sheet

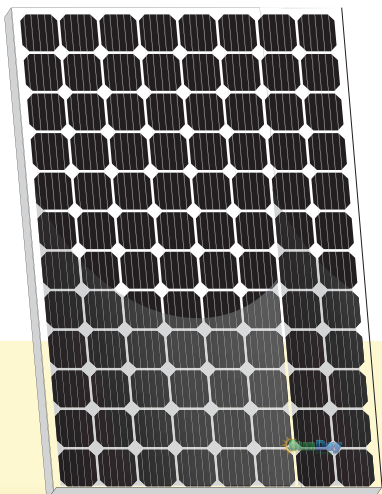
Changzhou Sunday Energy Co., Ltd.

SDM-460-510

SDM-510-96

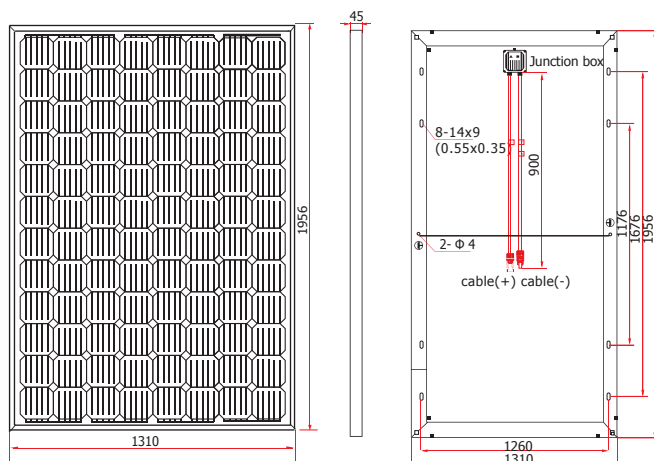
Also available on the web at
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MONOCRYSTALLINE MODULES 440W - 500W



SOLAR MODULE:
SDM440-96, SDM450-96, SDM460-96
SDM470-96, SDM480-96, SDM490-96, SDM500-96

PHYSICAL CHARACTERISTICS Unit: mm (inch)



ELECTRICAL SPECIFICATIONS

Model Type	SDM440-96	SDM450-96	SDM460-96	SDM470-96	SDM480-96	SDM490-96	SDM500-96
Nominal Maximum Power (Pmax)	440W	450W	460W	470W	480W	490W	500W
Optimum Operating Voltage (Vmp)	47.78V	47.87V	48.01V	48.25V	48.35V	48.45V	48.63V
Optimum Operating Current (Imp)	9.21A	9.40A	9.59A	9.74A	9.93A	10.12A	10.28A
Open Circuit Voltage (Voc)	58.50V	58.57V	58.75V	58.82V	58.89V	58.89V	58.95V
Short Circuit Current (Isc)	9.40A	9.73A	9.78A	9.90A	10.04A	10.67A	10.87A
Module Efficiency	17.17%	17.56%	17.95%	18.34%	18.73%	19.12%	19.51%
Cell Efficiency	19.2%	19.6%	19.8%	20%	20.5%	21%	21.5%
Power Tolerance	0 to +3%						
Maximum System Voltage	DC 1000V						
Operating Temperature	-40°C ~ +85°C						
Maximum Series Fuse Rating	20A						
Number of Bypass Diode	6						

MECHANICAL DATA

Cell Type	156mm x 156mm
Cell Arrangement	96 cells in series
Dimensions	1956 x 1310 x 45 mm (With bar fixed in the middle)
Weight	26kg
Front Cover	3.2mm tempered glass
Frame Material	Anodized aluminium alloy
J- Box	IP65/IP67, 6 diodes
Cable	4mm (IEC) / 12AWG (UL), 900mm (650mm is optional)
Connectors	MC4 or MC4 compatible

TEMPERATURE CHARACTERISTICS

Temperature Coefficient (Pmax)	-0.420% / °C
Temperature Coefficient (Voc)	-0.336% / °C
Temperature Coefficient (Isc)	0.042% / °C
Norminal Operating Cell Temperature	45.3 ± 2 °C

ELECTRICAL CHARACTERISTICS

(SDM500-96)

Current-Voltage Characteristic (I-V Curve)

