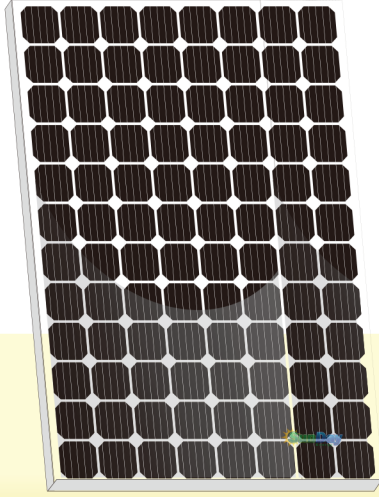
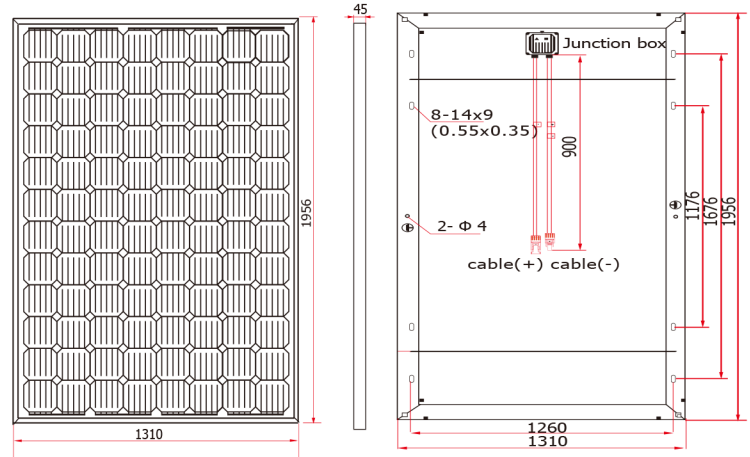


# MONOCRYSTALLINE MODULES 460W - 510W



SOLAR MODULE:  
SDM460-96, SDM470-96, SDM480-96  
SDM490-96, SDM500-96, SDM510-96

## PHYSICAL CHARACTERISTICS Unit: mm (inch)



## ELECTRICAL SPECIFICATIONS

Model Type	SDM460-96	SDM470-96	SDM480-96	SDM490-96	SDM500-96	SDM510-96
Nominal Maximum Power (Pmax)	460W	470W	480W	490W	500W	510W
Optimum Operating Voltage (Vmp)	48.01V	48.25V	48.35V	48.45V	48.63V	48.73V
Optimum Operating Current (Imp)	9.59A	9.74A	9.93A	10.12A	10.28A	10.47A
Open Circuit Voltage (Voc)	58.75V	58.82V	58.89V	58.89V	58.95V	59.05V
Short Circuit Current (Isc)	9.78A	9.90A	10.04A	10.67A	10.87A	11.07A
Module Efficiency	17.95%	18.34%	18.73%	19.12%	19.51%	19.90%
Cell Efficiency	19.8%	20%	20.5%	21%	21.5%	22.5%
Power Tolerance	0 to +3%					
Maximum System Voltage	DC 1500V					
Operating Temperature	-40°C ~ +85°C					
Maximum Series Fuse Rating	20A					
Number of Bypass Diode	4					

## MECHANICAL DATA

Cell Type	156.75mm x 156.75mm
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)	-0.37% / °C
Temperature Coefficient (Voc)	-0.29% / °C
Temperature Coefficient (Isc)	0.05% / °C
Normal Operating Cell Temperature	45.3 ± 2 °C

## ELECTRICAL CHARACTERISTICS

(SDM510-96)

Current-Voltage Characteristic (I-V Curve)

