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Solar Panel Guide Specification Data Sheet

Changzhou Sunday Energy Co., Ltd.

SDM-75-85

SDM-80

Also available on the web at
EnergyPal.com/changzhou-sunday-energy-co-ltd-solar-panels/sdm-80

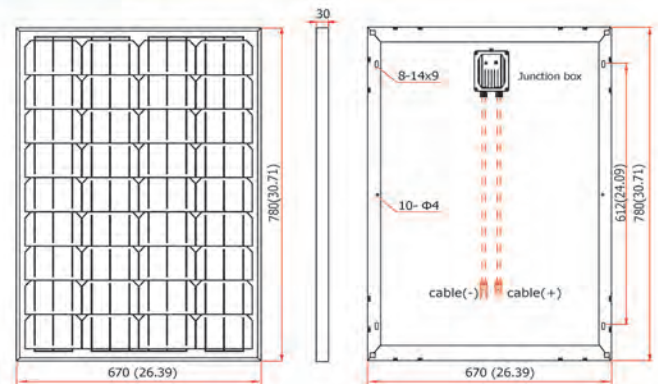
MONOCRYSTALLINE

MODULE 75W - 85W



SOLAR MODULE:
SDM-75, SDM-80, SDM-85

PHYSICAL CHARACTERISTICS Unit: mm (inch)



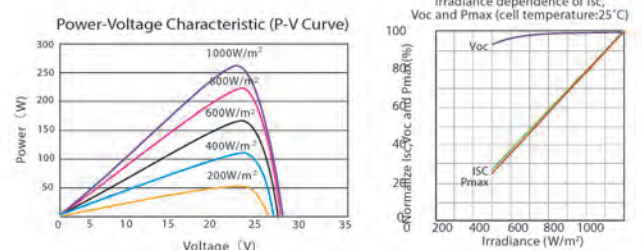
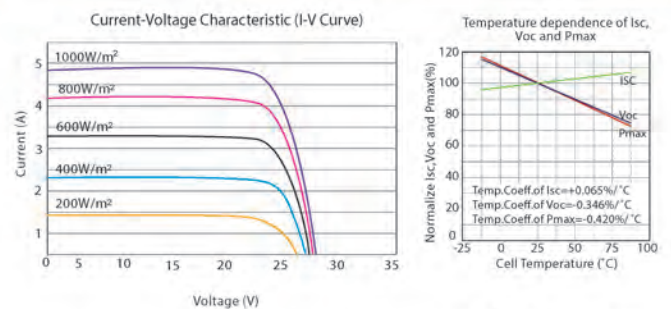
ELECTRICAL SPECIFICATIONS

Model Type	SDM-75	SDM-80	SDM-85
Nominal Maximum Power (Pmax)	75W	80W	85W
Optimum Operating Voltage (Vmp)	17.40V	17.65V	17.79V
Optimum Operating Current (Imp)	4.31A	4.54A	4.54A
Open Circuit Voltage (Voc)	21.65V	21.75V	21.75V
Short Circuit Current (Isc)	4.75A	4.78A	4.78A
Module Efficiency	14.20%	15.20%	16.26%
Cell Efficiency	17.10%	18.20%	18.80%
Power Tolerance		0 to +3%	
Maximum System Voltage		DC 1000V	
Operating Temperature		-40°C ~ +85°C	
Maximum Series Fuse Rating		10A	
Number of Bypass Diode		2	

MECHANICAL DATA

Cell Type	156mm x 78mm
Cell Arrangement	36 cells in series
Dimensions	780 x 670 x 30 mm
Weight	6.15kg
Front Cover	3.2mm tempered glass
Frame Material	Anodized aluminium alloy
J-Box	IP65, 2 diodes
Cable	2.5mm ² (IEC) / 12AWG (UL), 1000mm (650mm is optional)
Connectors	MC4 or MC4 compatible

ELECTRICAL CHARACTERISTICS



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