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Solar Panel Guide Specification Data Sheet

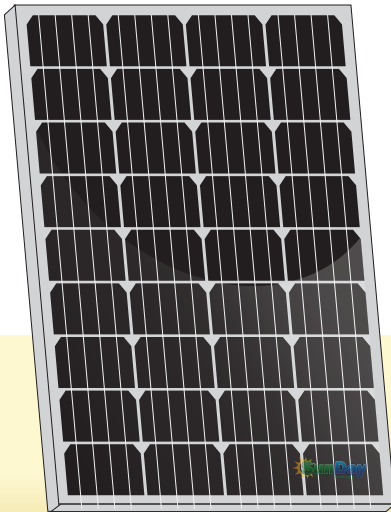
Changzhou Sunday Energy Co., Ltd.

SDM-130-145

SDM-130

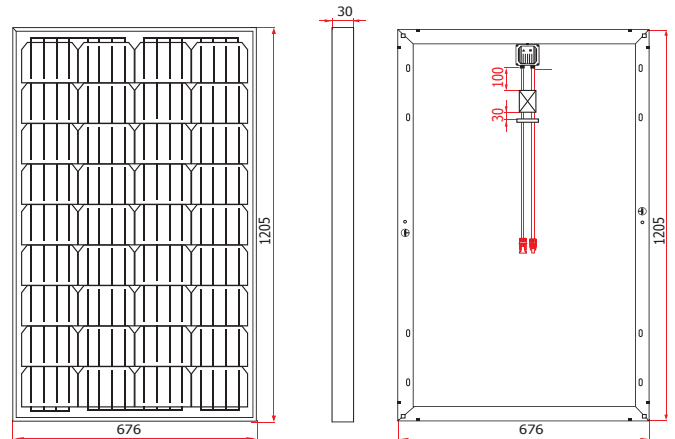
Also available on the web at
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MONOCRYSTALLINE MODULE 130W-145W



SOLAR MODULE:
SDM-130,SDM-135,SDM-140,SDM-145,

PHYSICAL CHARACTERISTICS Unit: mm (inch)



ELECTRICAL SPECIFICATIONS

Model Type	SDM-130	SDM-135	SDM-140	SDM-145
Nominal Maximum Power (Pmax)	130W	135W	140W	145W
Optimum Operating Voltage (Vmp)	18.00V	18.05V	18.05V	18.10V
Optimum Operating Current (Imp)	7.23A	7.48A	7.76A	8.01A
Open Circuit Voltage (Voc)	21.55V	21.65V	21.85V	22.05V
Short Circuit Current (Isc)	7.83A	8.09A	8.32A	8.54A
Module Efficiency	15.95%	16.57%	17.18%	17.80%
Cell Efficiency	18.7%	19%	20%	21%
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 125mm
Cell Arrangement	36 cells in series
Dimensions	1205 x 676 x 30 mm
Weight	8.23kg (approx)
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)	-0.336% / °C
Temperature Coefficient (Isc)	0.042% / °C
Normal Operating Cell Temperature	45.3 ± 2 °C

ELECTRICAL CHARACTERISTICS

(SDM-145)

Current-Voltage Characteristic (I-V Curve)

