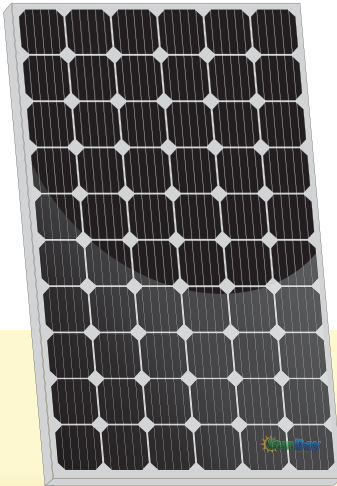


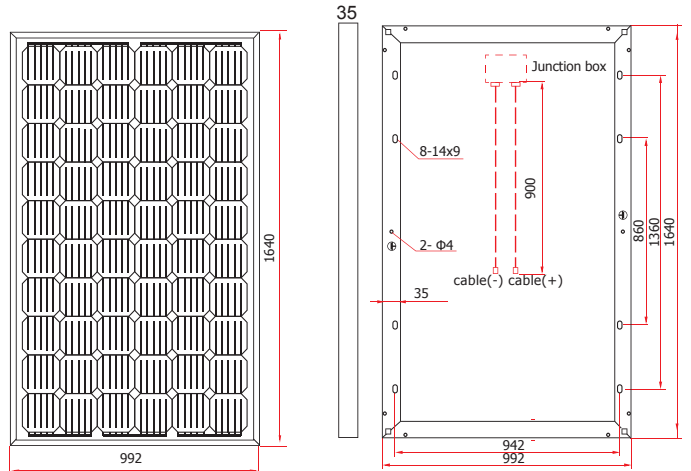
MONOCRYSTALLINE

MODULE 275W - 320W



SOLAR MODULE: SDM-275, SDM-280, SDM-285, SDM-290, SDM-295, SDM-300, SDM-305, SDM-310, SDM-315, SDM-320,

PHYSICAL CHARACTERISTICS Unit: mm (inch)



ELECTRICAL SPECIFICATIONS

Model Type	SDM-275	SDM-280	SDM-285	SDM-290	SDM-295	SDM-300	SDM-305	SDM-310	SDM-315	SDM-320
Nominal Maximum Power (Pmax)	275W	280W	285W	290W	295W	300W	305W	310W	315W	320W
Optimum Operating Voltage (Vmp)	31.70V	31.80V	32.00V	32.20V	32.42V	32.67V	32.79V	32.91V	33.03V	33.11V
Optimum Operating Current (Imp)	8.68A	8.81A	8.91A	9.01A	9.10A	9.19A	9.30A	9.42A	9.54A	9.66A
Open Circuit Voltage (Voc)	37.80V	38.00V	38.20V	38.40V	38.60V	38.80V	38.95V	39.13V	39.28V	39.41V
Short Circuit Current (Isc)	9.33A	9.45A	9.57A	9.68A	9.75A	9.88A	10.03A	10.15A	10.28A	10.40A
Module Efficiency	16.90%	17.20%	17.60%	17.90%	18.02%	18.44%	18.74%	19.05%	19.36%	19.67%
Cell Efficiency	19.10%	19.20%	19.50%	19.80%	20.10%	20.47%	21.20%	21.47%	22%	23%
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 35 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), 900mm (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
Nominal Operating Cell Temperature	45.3 ± 2 °C

ELECTRICAL CHARACTERISTICS

(SDM-320)

Current-Voltage Characteristic (I-V Curve)

