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**Solar Panel Guide
Specification Data Sheet**

Shenzhen Motoma Power Co., Ltd.

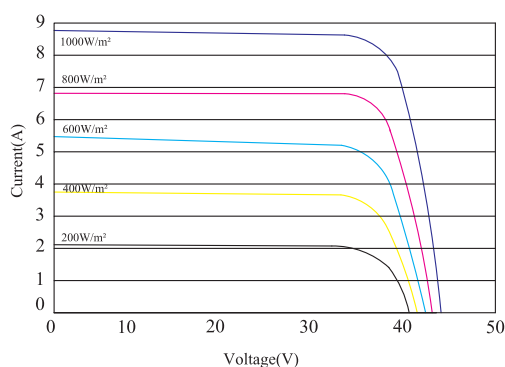
290~320Wp

300Wp

Also available on the web at
EnergyPal.com/shenzhen-motoma-power-co-ltd-solar-panels/300wp

I-V Curves

I-V curves of PV module 300W at different light power

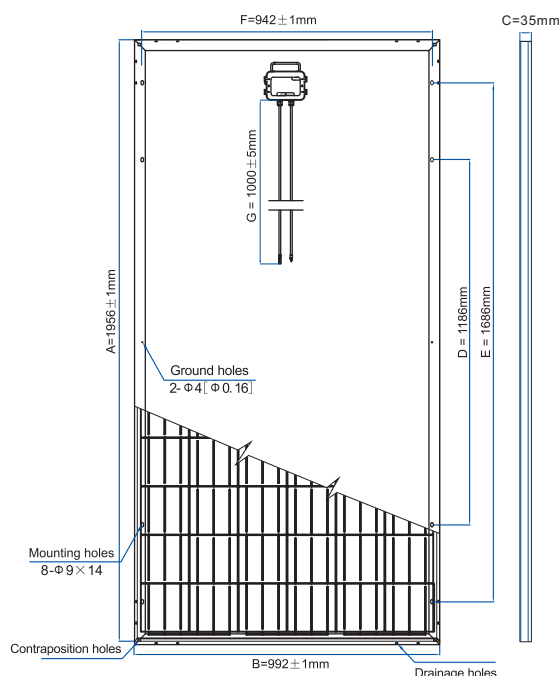


Typical Electrical Characteristics

Solar cells:	Poly-Crystalline 156x156mm 72pcs. (6×12) —3 bus bars						
Max-power	290Wp	295Wp	300Wp	305Wp	310Wp	315Wp	320Wp
Power Tolerance	0 to +6W						
Voltage at Pmax (Vmp)	36.5V	36.6V	36.7V	36.8V	36.9V	37.1V	37.3V
Current at Pmax (Imp)	7.95A	8.06A	8.17A	8.29A	8.40A	8.49A	8.58A
Open-Circuit Voltage (Voc)	44.8V	44.9V	45.0V	45.1V	45.2V	45.2V	45.5V
Short-Circuit Current (Isc)	8.46A	8.67A	8.79A	8.97A	9.09A	9.19A	9.28A
Max-System Voltage (VDC)	1000V(IEC), 600V(UL)						
Cell Efficiency	16.8%	17.0%	17.3%	17.6%	17.9%	18.2%	18.5%
Module Efficiency	14.9%	15.2%	15.5%	15.7%	16.0%	16.2%	16.5%
No. of Bypass Diodes (pcs.)	3						
Max. Series Fuse (A)	12A						
Temperature Coefficient of Pmax	-0.45%/°C						
Temperature Coefficient of Voc	-0.34%/°C						
Temperature Coefficient of Isc	0.05%/°C						
Nominal Operating Cell Temperature	45±2°C						

*STC Conditions (1000W/m²; 1.5 AM and 25°C Cell temperature)

Dimensions



Mechanical Characteristics

Cable type, Cross-sectional area and Length	Φ=4mm², L=1000±5mm
Type of Connector	Compatible type MC4
Dimension A×B×C	1956x992x35mm(77.01x39.06x1.37")
Weight	23.2kg (51.0lb)
No. of Draining Holes In Frame	16
Construction	Glass: High Transmission, Low Iron, Tempered Glass 3.2mm Encapsulation: EVA Back side: White
Junction Box (protection degree)	IP 67
Frame	Clear anodized aluminum alloy type 6063T5 frame

Qualification Test Parameters

Dielectric Insulation Voltage	6000V DC max
Operating Temperature	-40°C to +85°C
Max load	5400Pa
Hailstone impact	25mm (1inch) at 23m/s (52mph)
Tire safety class	Class C

Packaging Configuration

Packaging Configuration	20pcs./box and 2pcs./box	
Quantity of Big Box/Pallet	1box/pallet	1 boxes/pallet
Quantity of Small Box/Pallet	/	9 boxes/pallet
Loading Capacity	440pcs./40'HQ	190pcs./20'GP

► Caution: Read Safety And Installation Instructions Before Using This Product