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Solar Panel Guide Specification Data Sheet

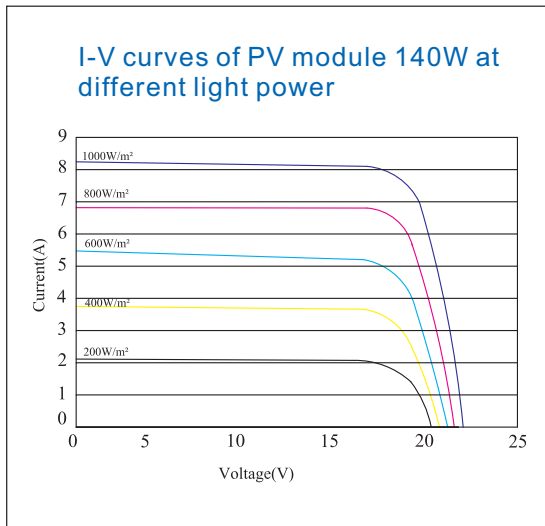
Shenzhen Motoma Power Co., Ltd.

140~160Wp

155Wp

Also available on the web at
EnergyPal.com/shenzhen-motoma-power-co-ltd-solar-panels/155wp

I-V Curves

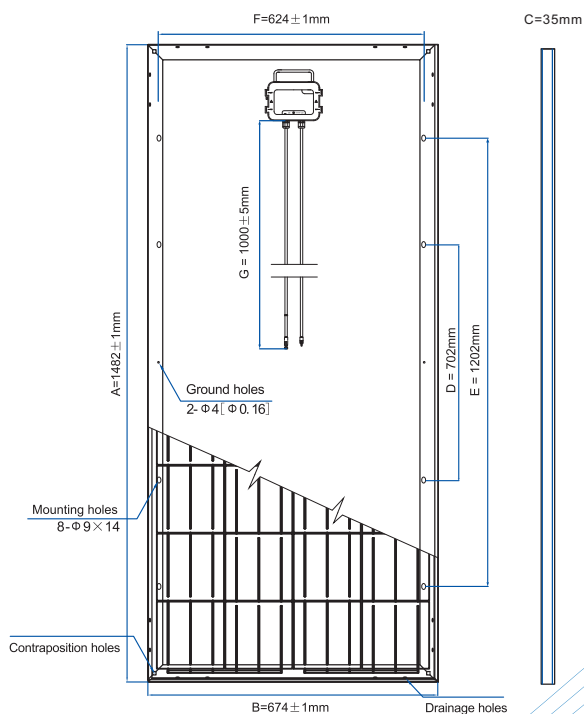


Typical Electrical Characteristics

Solar cells:	Poly- Crystalline 156X156mm 36pcs.(4×9)—3 bus bars				
Max-power	140Wp	145Wp	150Wp	155Wp	160Wp
Power Tolerance	0 to +6W				
Voltage at Pmax (Vmp)	18.1V	18.2V	18.4V	18.6V	18.8V
Current at Pmax (Imp)	7.73A	7.95A	8.15A	8.34A	8.51A
Open-Circuit Voltage (Voc)	22.2V	22.4V	22.5V	22.7V	22.9V
Short-Circuit Current (Isc)	8.30A	8.46A	8.82A	9.02A	9.21A
Max-System Voltage (VDC)	1000V(IEC), 600V(UL)				
Cell Efficiency	16.2%	16.8%	17.3%	17.9%	18.5%
Module Efficiency	14.0%	14.5%	15.0%	15.5%	16.0%
No. of Bypass Diodes (pcs.)	2				
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=4mm ² , L=1000±5mm
Type of Connector	Compatible type MC4
Dimension A×B×C	1482x674x35mm(58.35x26.54x1.37")
Weight	13.0kg (28.6lb)
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	22pcs./box	
Quantity of Big Box/Pallet	1box/pallet	1box/pallet
Loading Capacity	616pcs./40'GP	308pcs./20'GP

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