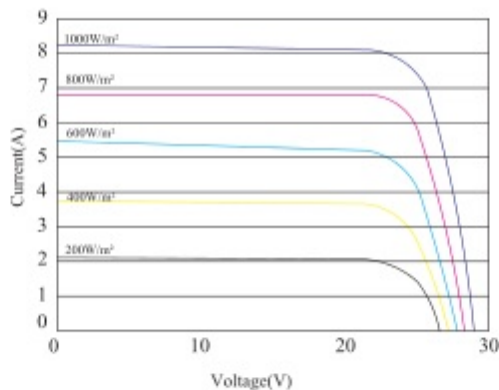


I-V Curves

I-V Curves of PV module CSG 190W at different light power

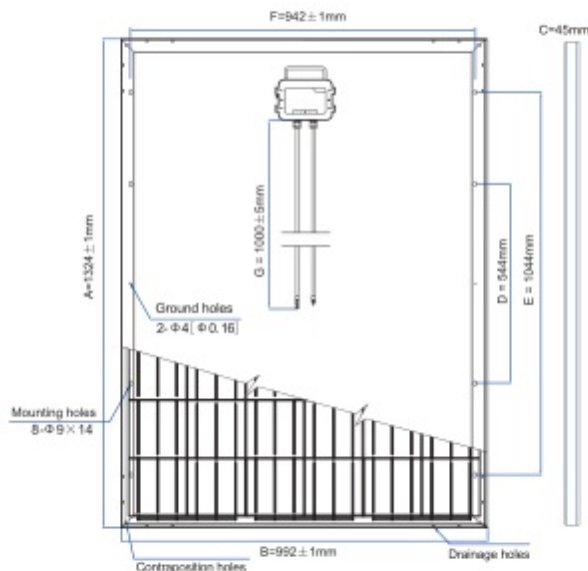


Typical Electrical Characteristics

Solar cells:	Poly-Crystalline 156X156mm 48pcs.(6×8) —3 bus bars					
Max-power	190Wp	195Wp	200Wp	205Wp	210Wp	215Wp
Power Tolerance	0 to +6W					
Voltage at Pmax (Vmp)	24.3V	24.5V	24.7V	24.9V	25.1V	25.3V
Current at Pmax (Imp)	7.83A	7.95A	8.10A	8.23A	8.37A	8.50A
Open-Circuit Voltage (Voc)	29.7V	30.1V	30.2V	30.4V	30.6V	30.9V
Short-Circuit Current (Isc)	8.38A	8.49A	8.76A	8.91A	9.05A	9.20A
Max-System Voltage (VDC)	1000V(IEC), 600V(UL)					
Cell Efficiency	16.4%	16.9%	17.3%	17.7%	18.2%	18.6%
Module Efficiency	14.5%	14.8%	15.2%	15.6%	16.0%	16.4%
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=4mm ² , L=1000±5mm
Type of Connector	Compatible type MC4
Dimension A×B×C	1324×992×45mm (52.13×39.06×1.77 inch)
Weight	16.0kg (35.2lb)
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 and 2pcs./box	
Quantity of Big Box/Pallet	1box/pallet	1 boxes/pallet
Quantity of Small Box/Pallet	/	9 boxes/pallet
Loading Capacity	704pcs./40'HQ	320pcs./20'GP

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