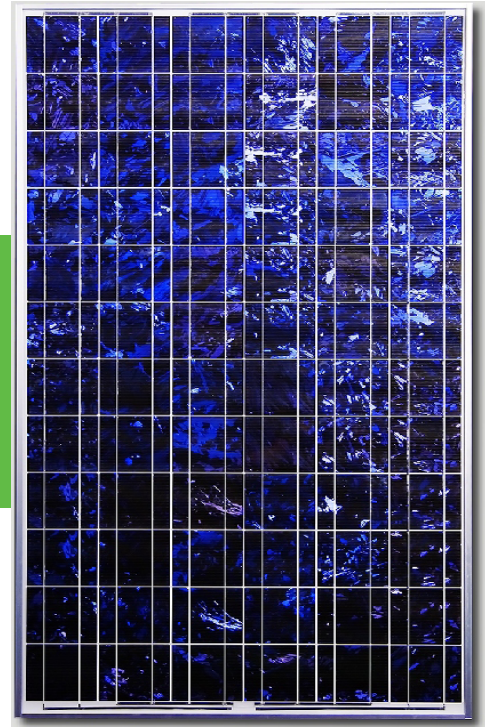




QG 160~180-5P



Features

*This mold of solar module has 72 solar cells.
They can be used for on-grid and off-grid solar applications.
Our meticulous design and production techniques ensure a high-yield,
long-term performance for every module produced.*

Applications

- *On-grid and off-grid residential roof-tops*
- *On-grid and off-grid commercial/industrial roof-tops*
- *Water Pumping systems*
- *Rural area applications*
- *etc.*

Features

- *5 years product warranty on material and workmanship
10 years limited warranty of 90% output
25 years limited warranty of 80% output*
- *Strong framed module, passing mechanical load
test of 5400Pa to withstand heavier snow load*
- *Industry leading power tolerance: $\pm 3\%$*

Qualifications

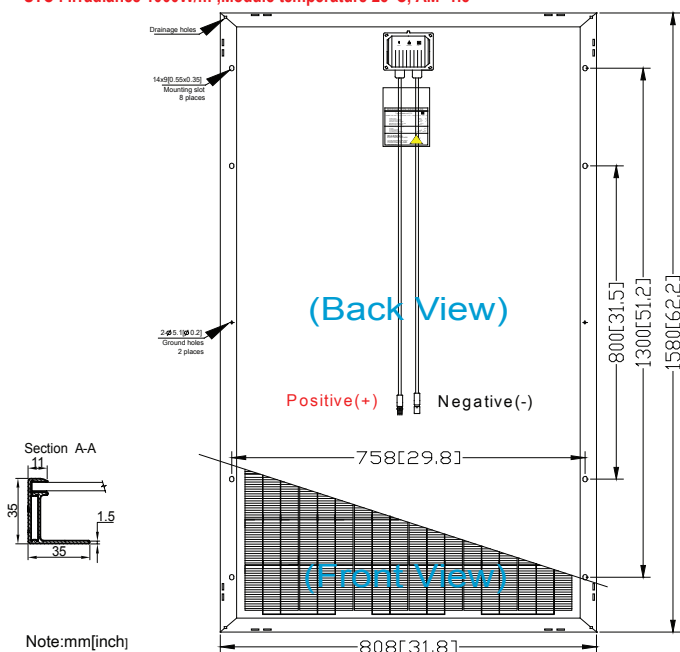
- *IEC 61215 , IEC 61730 , CE*
- *ISO9001:2008: Standards for quality management systems*



Electrical Characteristics

Characteristics	QG180-5P	QG 175-5P	QG 170-5P	QG 165-5P	QG 160-5P
Open - Circuit voltage (Voc)	44.2V	44.1V	43.9V	43.7V	43.4V
Optimum Operating Voltage (Vmp)	35.7V	35.4V	35.2V	34.9V	34.8V
Short - Circuit Current (Isc)	5.41A	5.31A	5.20A	5.09A	4.99A
Optimum Operating Current (Imp)	5.04A	4.94A	4.83A	4.73A	4.60A
Maximum Power at STC (Pmax)	180 Wp	175Wp	170Wp	165Wp	160Wp
Operating Temperature	-40°C to +85°C				
Maximum System Voltage	1000V DC				
Maximum Series Fuse Rating	10A				
Power Tolerance	±3 %				

*STC : Irradiance 1000W/m², Module temperature 25°C, AM=1.5



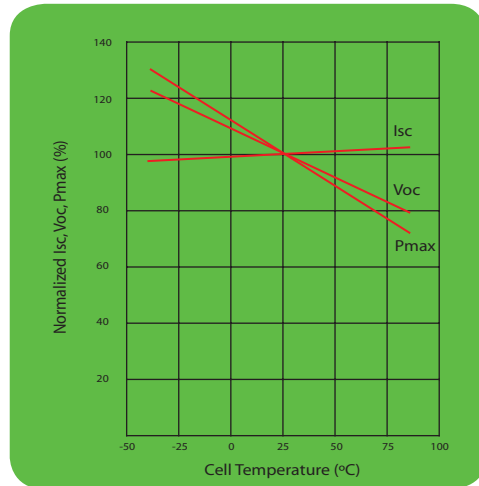
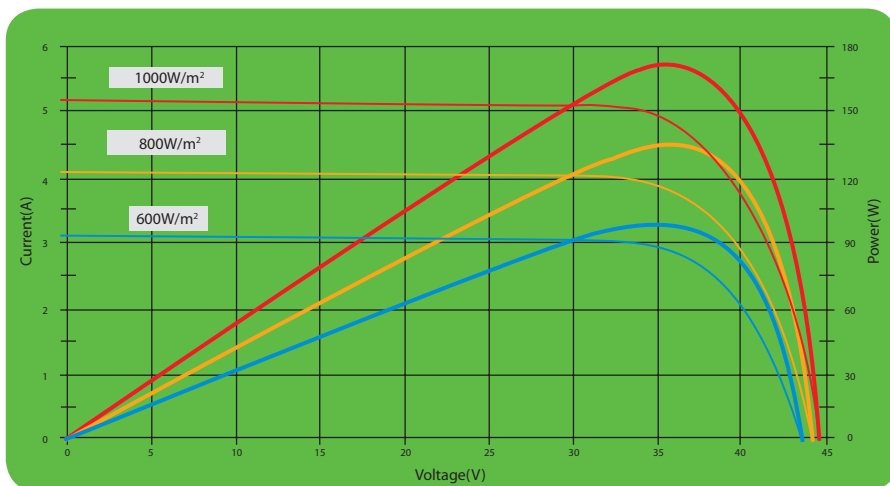
Mechanical Characteristics

Solar Cell	Poly-crystalline 125x125mm (5inch)
No. of Cells	72 (6x12)
Dimensions	1580x808x35mm (62.2x31.8x1.4inch)
Weight	15.5kg (34.1lbs.)
Front Glass	3.2 mm tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP65
Output Cables	(-) 1000mm (39.4inch) (+) 1000mm (39.4inch) MC4 connectors

Temperature Characteristics

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.47 %/°C
Temperature Coefficient of Voc	-0.34 %/°C
Temperature Coefficient of Isc	0.045 %/°C

Temperature Dependence of Isc, Voc, Pmax



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