

Monocrystalline

200-72M	200Wp
195-72M	195Wp
190-72M	190Wp
185-72M	185Wp
180-72M	180Wp



Features

- Vertically integrated production including ingot, wafer, cell and module
- High module efficiency, up to 15.67%
- Positive tolerance for mainstream products, 0 ~ +5W
- Tested for 5400Pa load capacity, suitable for heavy snow areas
- Anodized aluminum frame to improve corrosion resistance
- High transparent, low iron tempered glass to improve module efficiency
- Module with Anti-reflection glass for special application e.g. highways **NEW**
- Encapsulated junction box, better insulation, sealing, heat dissipation
- Special module for low light or cloudy environment **NEW PRODUCT COMING SOON**

Benefits

- 10 years product warranty for materials and workmanship
25 years output warranty,
12 years $\geq 90\%$, 25 years $\geq 80\%$
- Worldwide Product Liability Insurance covered by Zurich Insurance
- 25 years Product Performance Insurance covered by Zurich Insurance **NEW**
covered by MunichRE **COMING SOON**
- Local technical support
- Local warehousing
- 48 hour-response service
- Enhanced design for easy installation and long term reliability
- Customized production, e.g. black module, special frame, BIPV
- Punctual and safe delivery, reliable supply to keep project schedule



EC 61215 Ed2
EC 61730



Electrical Data

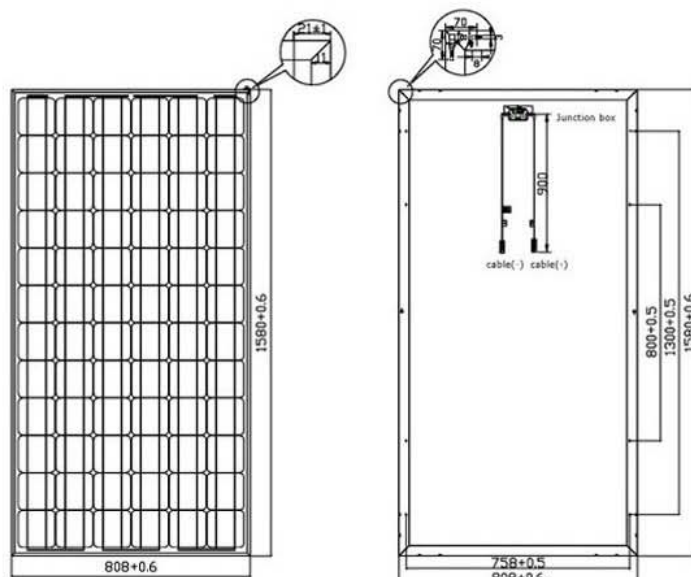
Model Type	200-72M	195-72M	190-72M	185-72M	180-72M
Peak Power (Pmax)	200W	195W	190W	185W	180W
Cell Efficiency	18.47%	18.01%	17.55%	17.09%	16.63%
Module Efficiency	15.67%	15.27%	14.88%	14.49%	14.10%
Maximum Power Voltage [Vmp]	36.4V	36.3V	36.2V	35.8V	35.4V
Maximum Power Current [Imp]	5.5A	5.38A	5.25A	5.17A	5.09A
Open Circuit Voltage [Voc]	45.4V	45.2V	45V	44.8V	44.6V
Short Circuit Current [Isc]	5.74A	5.63A	5.5A	5.48A	5.4A
Power Tolerance	±5W	0~+5W	0~+5W	0~+5W	0~+5W
Maximum System Voltage	1000V				
Normal Operating Cell Temperature	45°C±2 °C				
Series Fuse Rating [A]	10				
Number of Bypass Diodes	3				
Voltage temperature coefficients	-0.336%/°C				
Current temperature coefficients	0.042%/°C				
Power temperature coefficients	-0.47%/°C				

Mechanical Data

Cell Type	Mono 125mm×125mm
No. of Cells	72 (6×12)
Dimensions	1580×808×35mm (L×W×H) 1580×808×45mm (L×W×H)
Weight	15.5kg (35) / 16kg (45)

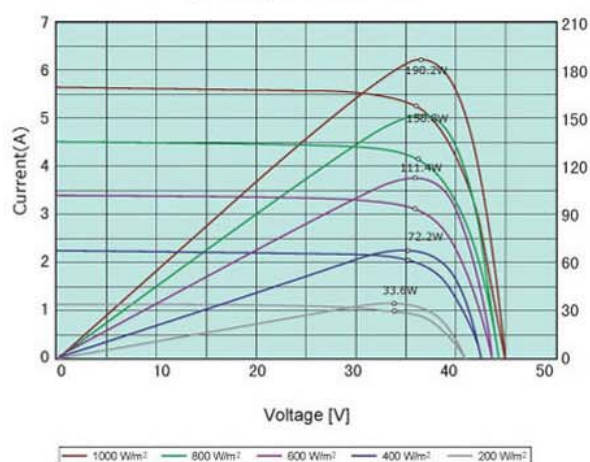
Working Conditions

Maximum surface load capacity	tested up to 5,400 Pa according to IEC 61215 (advanced test)
Hail	maximum diameter of 25 mm with impact speed of 23m/s
Temperature range	- 40 °C to + 85 °C

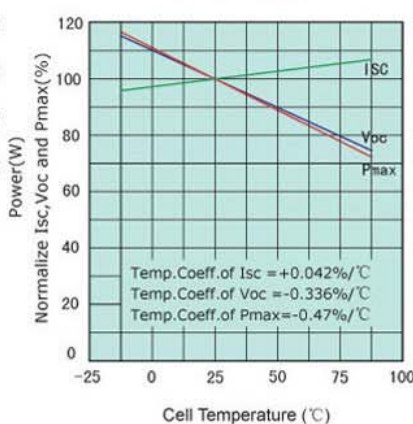


ELECTRICAL CHARACTERISTICS

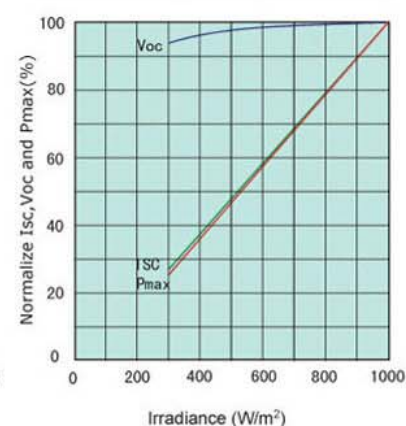
Electrical performance
(cell temperature:25°C)



Temperature dependence of Isc, Voc and Pmax



Irradiance dependence of Isc, Voc and Pmax (cell temperature:25°C)



The electrical data relates to standard test conditions [STC]: 1,000 W/m²; AM 1.5; 25 °C.

Performance deviation of Pmpp: +/- 3%. performance deviation of Voc[V],Isc[A],Vmpp [V] and Imp [A]: +/- 10%.