

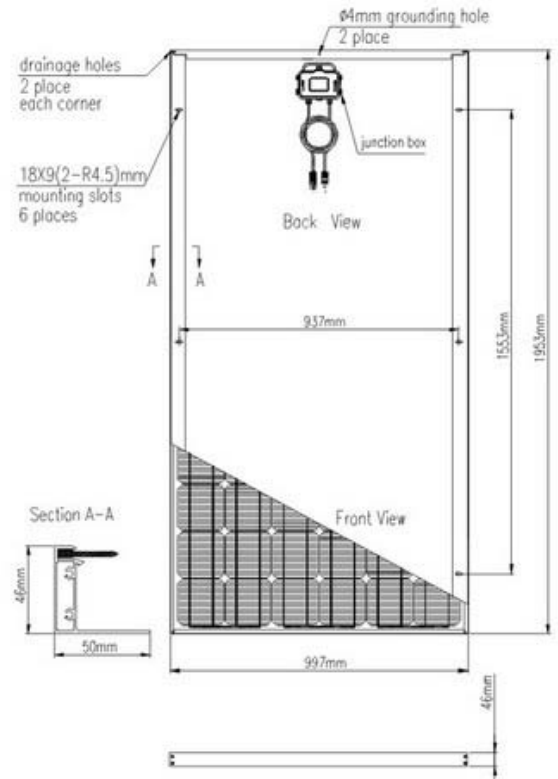
Monocrystalline Solar Module 156X156mm 6x12 Cells



Electrical Characteristics

| TUV-Model | UL-270D-72 | UL-275D-72 | UL-280D-72 | UL-285D-72 | UL-290D-72 | UL-295D-72 | UL-300D-72 |
|---------------------------------|-------------------|------------|------------|------------|------------|------------|------------|
| UL-Model | UL-270D | UL-275D | UL-280D | UL-285D | UL-290D | UL-295D | UL-300D |
| Max Power Pm(W) | 270 | 275 | 280 | 285 | 290 | 295 | 300 |
| Max Power Voltage Vm(V) | 36.2 | 36.3 | 36.3 | 36.4 | 36.5 | 36.6 | 36.7 |
| Max Power Current Im(A) | 7.46 | 7.58 | 7.72 | 7.83 | 7.95 | 8.06 | 8.18 |
| Open-Circuit Voltage Voc(V) | 44.4 | 44.5 | 44.5 | 44.6 | 44.7 | 44.8 | 44.9 |
| Short-Circuit Current Isc(A) | 8.16 | 8.28 | 8.35 | 8.40 | 8.44 | 8.50 | 8.63 |
| Cell Efficiency | 15.7% | 16.0% | 16.3% | 16.6% | 16.9% | 17.1% | 17.4% |
| Module Efficiency | 13.9% | 14.1% | 14.4% | 14.6% | 14.9% | 15.2% | 15.4% |
| Power Tolerance | ±3% | | | | | | |
| Maximum System Voltage(V) | 1000(TUV)/600(UL) | | | | | | |
| Temperature Coefficient of Isc | 0.065%/°C | | | | | | |
| Temperature Coefficient of Voc | -0.35%/°C | | | | | | |
| Temperature Coefficient of Pmax | -0.40%/°C | | | | | | |
| Operating Temperature | -40°C~+85°C | | | | | | |
| NOCT | 47±2°C | | | | | | |
| Series Fuse Rating(A) | 15 | | | | | | |

STC: irradiance:1000W/mm²; solar spectrum: AM1.5; cell temperature: 25°C



Mechanical Characteristics

| | |
|-----------------------|-------------|
| Module Dimension (mm) | 1953x997x46 |
| Cell Dimension (mm) | 156x156 |
| Array (PCS) | 6x12 |
| Weight(Kg) | 23 |

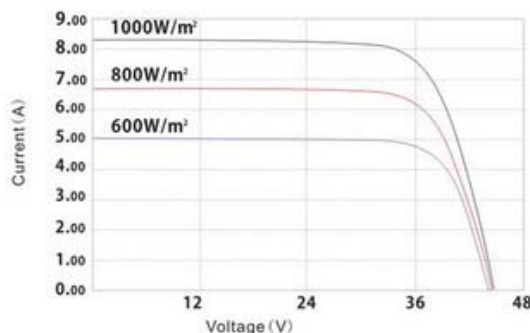
GUARANTEE

- 5-year product guarantee
- 10-year performance guarantee at 90% power output
- 25 year performance guarantee at 80% power output

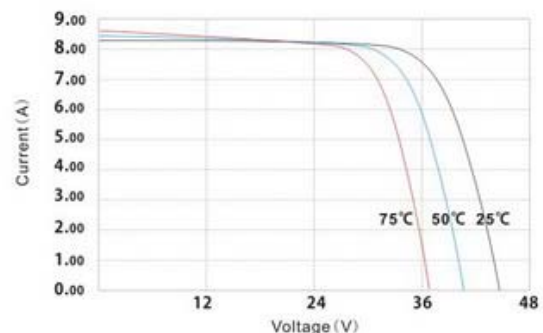
NOTE

- Nominal Operating Cell Temperature above data is only for reference
- Deviation of Vm(V), Im(A), Voc(V) and Isc(A) of ±10%

I-V Curves of UL-280D/UL-280D-72



I-V Curves at different irradiance



I-V Curves at different temperature