

JNMP60-270~290

High efficiency poly solar module

Front-Runner PV module

JNMP60

More than 60% of modules produced have an efficiency over 17.4%.

Excellent performance against salt mist and ammonia corrosion.

Adaptable to various scenarios.

Demonstrated extra low degradation.

Compatible with 1000V and 1500V system voltage.



Advanced production process

5BB/ MBB optional, double printing cell technology
Cell efficiency >19.3%



Superior quality control

Full automatic production line
MES and ERP digitizing logistics management
ISO 9001:2015 Quality Management System
100% three times EL and appearance inspection



Excellent power generation performance

0~+5W positive power tolerance
Improved low light irradiance performance and low degradation



Stable mechanical performance

Passed rigorous hail test
Withstands 5400Pa snow and 2400Pa wind loads



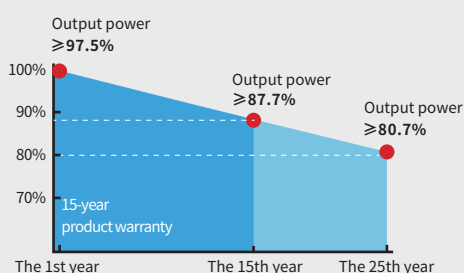
Long weather resistance

Excellent anti-PID performance
Certified in fireproofing for safety

CERTIFICATION

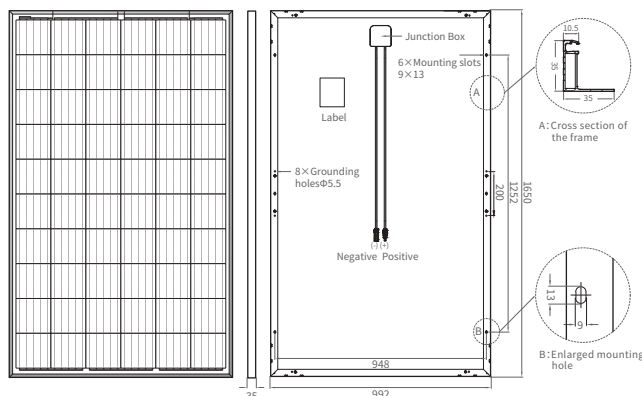


QUALITY ASSURANCE



JINNENG CLEAN ENERGY TECHNOLOGY LTD
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MECHANICAL PARAMETERS

| | |
|---|------------------------------------|
| Cell (mm) | 156.75*156.75 / 157.75*157.75 Poly |
| Dimensions (L*W*H) (mm) | 1650*992*35 |
| Weight (kg) | 18.1 |
| Cable Cross Section Size (mm ²) | 4 |
| Cable Length (mm) | 800 / 1000 |
| No. of Cells and Connections | 60(6*10) |
| No. of Diodes | 3 |

QUALIFICATION

| | |
|------------------------------------|-------------|
| Max.System Voltage (V DC) | 1000 |
| Temperature Cycling Range (°C) | -40~+85 |
| Max.Series Fuse Rating (A) | 15 |
| Max Reverse Current (A) | 15 |
| Max.Wind Load / Max.Snow Load (Pa) | 2400 / 5400 |
| Hot Spot Rate | 100% Free |

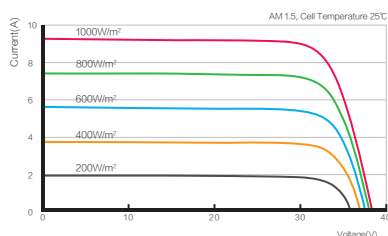
TEMPERATURE COEFFICIENTS

| | |
|---------------------------------------|-------------|
| Norminal Operating Cell Temp (NOCT) | 45±2°C |
| Temperature Coefficient Voltage (Voc) | -0.31% / °C |
| Temperature Coefficient Current (Isc) | 0.05% / °C |
| Temperature Coefficient Power (Pm) | -0.41% / °C |

ELECTRICAL PARAMETERS

| | | JNMP60-270 | JNMP60-275 | JNMP60-280 | JNMP60-285 | JNMP60-290 |
|--|-------------------------------|------------|------------|------------|------------|------------|
| STC AM1.5, 1000W/m ² Cell Temperature 25°C | Max. Power at STC (Pmpp/W) | 270 | 275 | 280 | 285 | 290 |
| | Output Tolerance (W) | 0-+5 | 0-+5 | 0-+5 | 0-+5 | 0-+5 |
| | Max. Power Voltage (Vmp/V) | 31.15 | 31.43 | 31.72 | 31.99 | 32.33 |
| | Max. Power Current (Imp/A) | 8.67 | 8.75 | 8.83 | 8.91 | 8.97 |
| | Open Circuit Voltage (Voc/V) | 38.14 | 38.27 | 38.47 | 38.66 | 38.79 |
| | Short Circuit Current (Isc/A) | 9.20 | 9.27 | 9.34 | 9.41 | 9.47 |
| | Module Efficiency (%) | 16.5 | 16.8 | 17.1 | 17.4 | 17.7 |
| NOCT AM1.5, 800W/m ² , Ambient Temperature 20°C, Wind Speed 1m/s | Max. Power at NOCT (Pmpp/W) | 200.9 | 204.7 | 208.4 | 212.1 | 215.8 |
| | Max. Power Voltage (Vmp/V) | 28.97 | 29.24 | 29.50 | 29.76 | 30.08 |
| | Max. Power Current (Imp/A) | 6.94 | 7.00 | 7.06 | 7.13 | 7.18 |
| | Open Circuit Voltage (Voc/V) | 35.77 | 35.89 | 36.08 | 36.26 | 36.38 |
| | Short Circuit Current (Isc/A) | 7.42 | 7.48 | 7.54 | 7.59 | 7.64 |

I-V CURVE(280W)



PACKING CONFIGURATION

| Container (High cube) | | Platform Semi-Trailer | |
|------------------------|-----|-----------------------|------|
| Pieces Per Pallet | 31 | Pieces Per Pallet | 31 |
| Pallets Per Stack | 2 | Pallets Per Stack | 2 |
| Extra Pieces Per Stack | 4 | Stacks Per Platform | 25 |
| Stacks Per Container | 14 | Pieces Per Platform | 1550 |
| Pieces Per Container | 924 | | |