



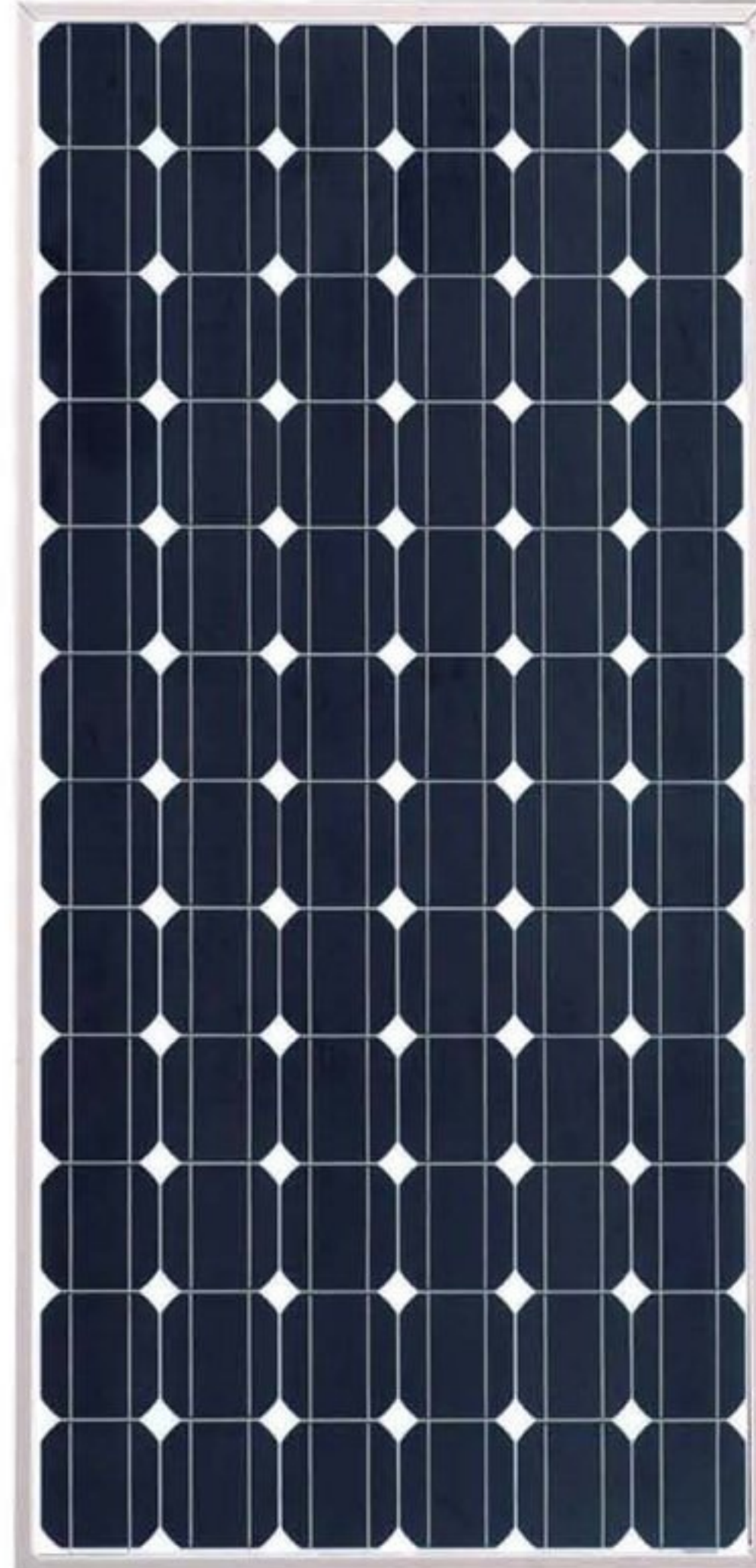
CN SOLAR(MONO SERIES)

● STRENGTHS

Tolerance $\pm 3\%$
2 Bus Bar Configuration
Plug and Play Connectors
High Transmission, Low Iron
Tempered Glass
Can bear loads up to 5400
pascals (IEC 61215 2nd)

● WARRANTY

10 years product guarantee.
25 years performance
warranty of 90% for the first
10 years and 80% for the
remaining 15 years.



MONO

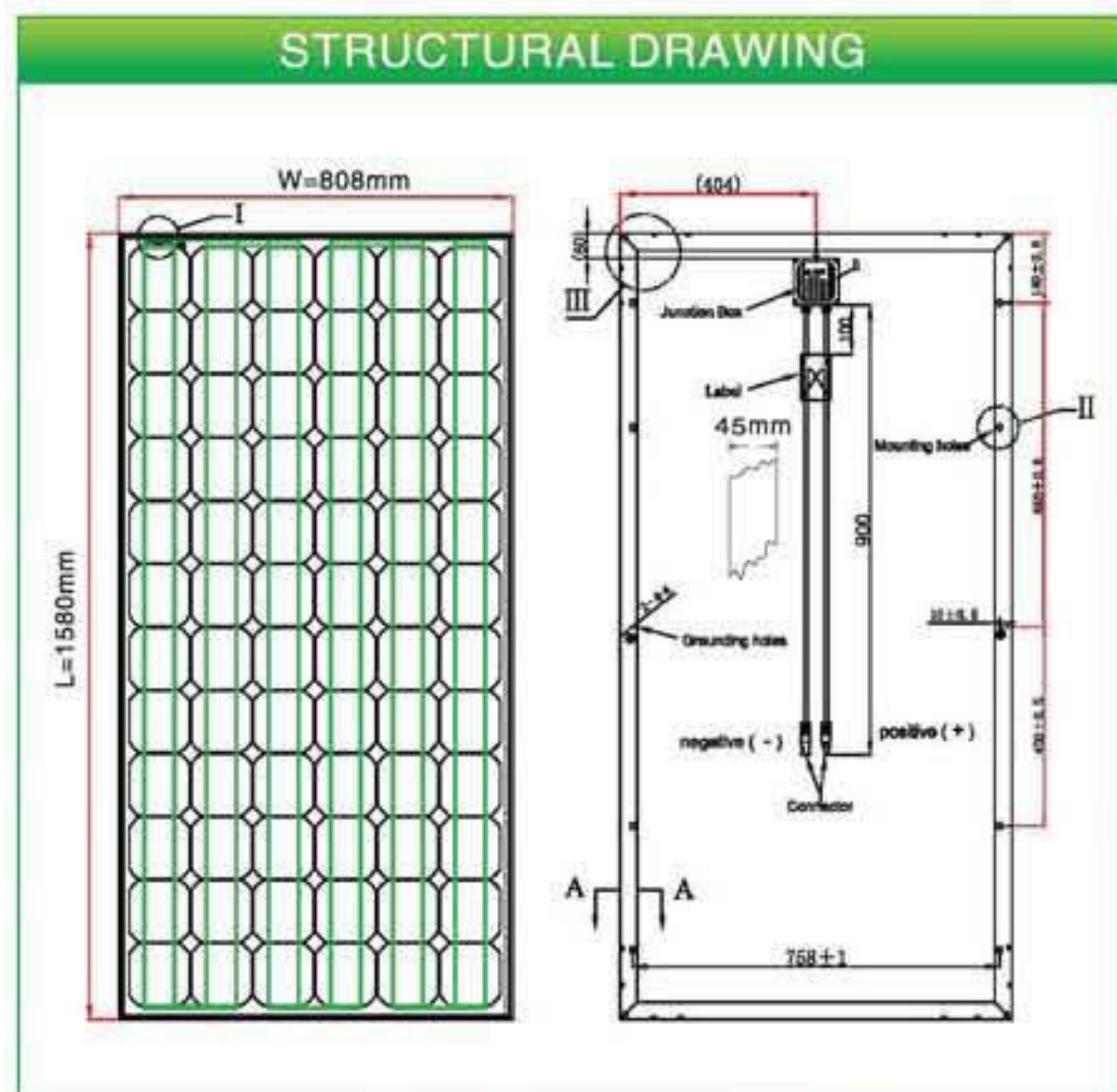
● MONOCRYSTALLINE SOLAR MODULE

Using only the best quality materials to provide high quality solar modules

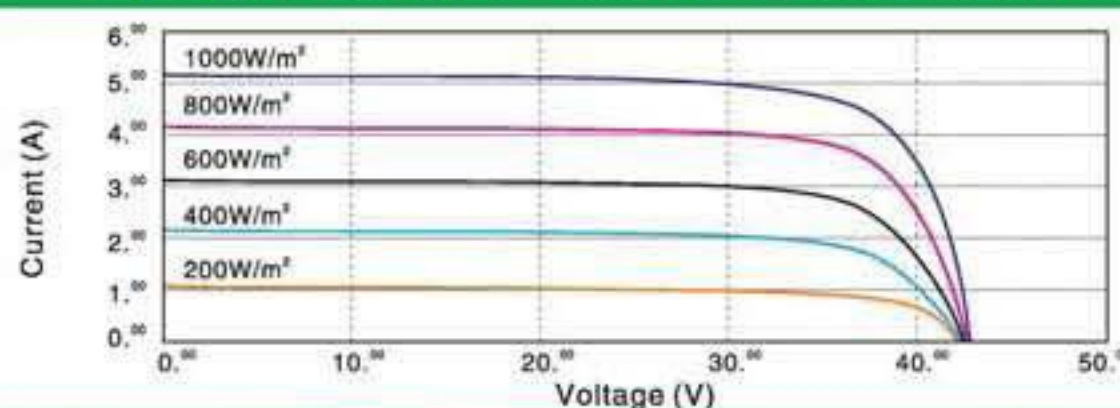
- High efficiency solar cells with high transmission and low iron textured glass delivering high efficiency modules;
- Bypass diode minimizes the power drop caused by shading;
- Tempered glass, EVA resin, and weatherproof film, plus aluminum frame for extended outdoor use;
- Modules independently tested to ensure conformance with certification and regulatory standards;
- Manufacturing facility certified to ISO 9001 & ISO 14001 quality management System standards;



CN SOLAR(MONO SERIES)



I-V CURVES OF PV MODULE CNM180M-72



SPECIFICATIONS

| | |
|------------------------------|-----------------|
| Cell | 125*125(mm) |
| No. of cells and connections | 72 Pcs |
| Weight | 15.5kgs |
| Dimension(L*W*H) | 1580*808*45(mm) |

CERTIFICATIONS



CHARACTERISTICS

| Model | CNM180M-72 | CNM185M-72 | CNM190M-72 | CNM195M-72 | CNM200M-72 |
|------------------------------------|--------------|------------|------------|------------|------------|
| Maximum Power (Pm) | 180Wp | 185Wp | 190Wp | 195Wp | 200Wp |
| Open circuit voltage (Voc) | 43.90V | 43.90V | 44.50V | 44.50V | 45.00V |
| Optimum operating voltage(Vm) | 36.00V | 36.00V | 36.50V | 36.50V | 37.00V |
| Short circuit current (Isc) | 5.30A | 5.45A | 5.52A | 5.77A | 5.80A |
| Optimum operating current (Im) | 5.00A | 5.14A | 5.21A | 5.34A | 5.40A |
| Maximum System Voltage at STC (Vm) | 1000VDC | | | | |
| Operating temperature (°C) | -40°C ~ 85°C | | | | |

STC: AM1.5, 25

● Model (CNM190M-72) Specifications

General Data

| | |
|--------------------------------|--|
| Solar Cells | 125*125 |
| Type of Connector | TUV certified MC4 compatible plug & play |
| Cable Type diameter and length | φ = 4mm² L = 1000 mm TUV certified |
| Front Glass Thickness (mm) | 3.2 |

Mechanical and Packing Configuration

| | |
|---------------------------------|--|
| Size of Module(mm) | 1580*808*45 |
| Maximum Power(W) | 190 |
| Number of Cells(pcs) per module | 6*12 |
| Optimum Power Voltage(Vmp) | 36.50 |
| Optimum Operating Current(Im) | 5.21 |
| Open Circuit Voltage(Voc) | 44.50 |
| Short Circuit Current(Isc) | 5.52 |
| Weight Per Panel(KG) | 15.50 |
| Packaging | Wooden box 20pcs per box. 560 pcs per 40ft container |
| Cell Efficiency (%) | 17.30 |
| Module Efficiency (%) | 14.88 |

TEMPERATURE AND COEFFICIENTS

| | |
|--------------------------------------|------------|
| NOCT (°C) | 47°C ± 2°C |
| Temperature Coefficients of Voc(%)°C | -0.35 |
| Temperature Coefficients of Isc(%)°C | 0.05 |
| Temperature Coefficients of Pm(%)°C | -0.45 |
| Tolerance Wattage(e.g. +/-3%) | ±3% |

NOCT: Nominal Operating Cell Temperature

Warranty

10 years manufacturing warranty
10 years warranty, 90% power output
25 years warranty, 80% power output

Others

| | |
|-------------------------------|----------------|
| Surface Maximum Load Capacity | 5400Pa |
| Allowable Hail Load | 23m/s 7.53g |
| Junction Box Type | TUV Certified |
| Bypass Diode Rating(A) | 10 |
| Temperature Range | -40°C to +85°C |
| Frame(Material Corners,etc.) | 45# |
| Backing (Brand Type) | TPT |
| Standard Test Conditions | AM1.5 |
| FF (%) | 72-78% |

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