

Mono-crystalline Solar PV Modules

M182-72N
TOPCon

570W

22.1%

Module efficiency

ZY570M10NHB-144

TOPCon Mono-crystalline Bifacial Module

Electrical Specifications

| Module Type | | ZY570M10NHB-144 | |
|--|-------------------------------|-----------------|-------|
| STC: AM1.5 Temperature 25°C Irradiance 1000 W/m ² | Peak Power(Pmax)±3% | (W) | 570 |
| | Power Tolerance | (W) | 0~+5 |
| | Max.Power Voltage(Vmp) | (V) | 43.34 |
| | Max.Power Current(Imp) | (A) | 13.15 |
| | Open-circuit Voltage(Voc)±3% | (V) | 51.48 |
| NMOT: AM1.5 Temperature 20°C Wind speed 1m/s Irradiance 800 W/m ² | Short-circuit Current(Isc)+3% | (A) | 13.68 |
| | Peak Power(Pmax)±3% | (W) | 426.4 |
| | Max.Power Voltage(Vmp) | (V) | 40.31 |
| | Max.Power Current(Imp) | (A) | 10.58 |
| | Open-circuit Voltage(Voc) | (V) | 47.88 |
| Short-circuit Current(Isc) | (A) | 11.27 | |
| Operating Temperature | (°C) | -40~+85 | |
| Max. Series Fuse Rating | (A) | 30 | |
| Max. System Voltage(DC) | (V) | 1500 (IEC) | |

Mechanical Specifications

| | |
|-----------------------|--|
| Solar Cells | N-Mono-182*91mm |
| Arrangement | Type-6*12*2 |
| Front Glass | 2.0mm tempered glass |
| Back Glass | 2.0mm tempered glass |
| Frame | Anodized aluminium alloy |
| Junction Box | IP68, 3 diodes |
| Cables | 4.0mm ² photovoltaic cables |
| Connectors | MC4 compatible/IP68 |
| Maximum Load Capacity | Snow-5400Pa/Wind-2400Pa |
| Safety Rate | Class II (IEC) |
| Fire Rate | Class C (TUV) |

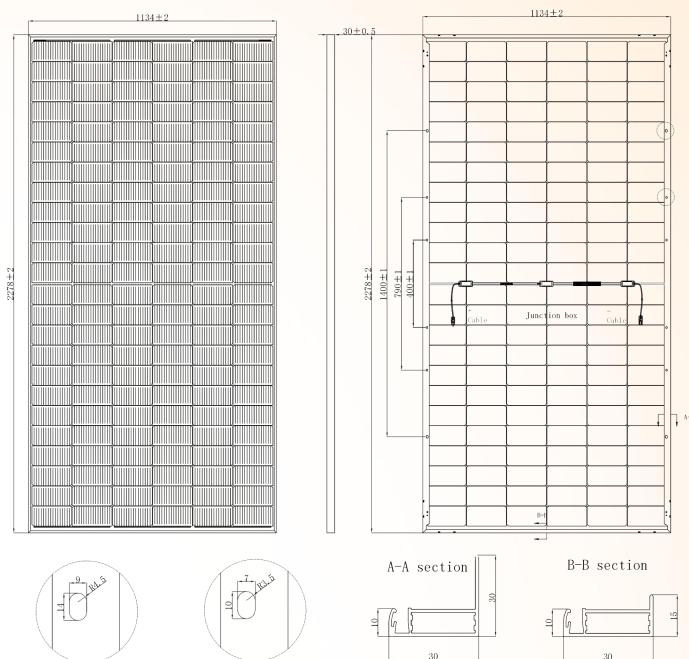
Packing Configuration

| Package Weight & Size | 1210Kg/pallet & 2310*1140*1260mm | | |
|-----------------------|----------------------------------|-------------------|---------|
| 20'GP Container | 2 pcs/carton | 155 cartons/20'GP | 310 pcs |
| 40'HQ Container | 37 pcs/pallet | 20 pallets/40'HQ | 740 pcs |
| 13.5m Land Truck | 37 pcs/pallet | 22 pallets/truck | 814 pcs |

Dimensions of PV Module

Module Dimensions 2278(±2)*1134(±2)*30mm

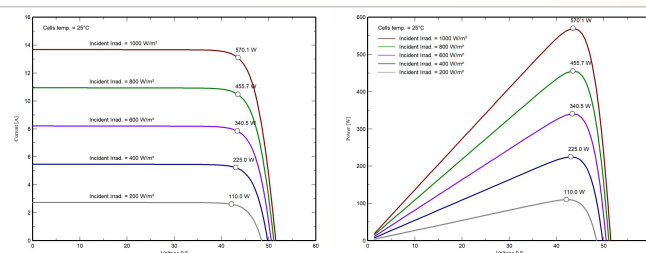
Module Weight 31.6 kg(±3%)



Temperature Characteristics

| | | |
|------------------------------------|---------|----------|
| Temperature Coefficient (Pmax) | δ[%/°C] | -0.30 |
| Temperature Coefficient (Voc) | β[%/°C] | -0.25 |
| Temperature Coefficient (Isc) | α[%/°C] | +0.05 |
| Nominal Operating Cell Temperature | NMOT | 45°C±2°C |

I-V & P-V Curves



Current-Voltage Characteristic

Power-Voltage Characteristic

Different Backside Power Gain

| Power Gain | | 5% | 15% | 25% |
|----------------------------|-----|-------|-------|-------|
| Maximum Power(Pmax) | (W) | 598.5 | 655.5 | 712.5 |
| Max.Power Voltage(Vmp) | (V) | 43.34 | 43.34 | 43.34 |
| Max.Power Current(Imp) | (A) | 13.81 | 15.12 | 16.44 |
| Open-circuit Voltage(Voc) | (V) | 51.48 | 51.48 | 51.48 |
| Short-circuit Current(Isc) | (A) | 14.72 | 16.12 | 17.52 |



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95 mm

105 mm



Energia

MODULO FOTOVOLTAICO



22,1%
Eficiência

570W
Potência

2,58m²
Área

Tecnologia: BIFACIAL - MONOSI
Fornecedor: W M LAUDISIO JUNIOR
Marca: RENEPV
Modelo: ZY570M10NHB-144

Mais eficiente



Classe

A

Menos eficiente

Com base nos resultados do ciclo normalizado pelo Inmetro.



Segurança
Desempenho
N° de Registro
015136/2024



Para instruções de instalação e recomendações de uso, leia o manual do aparelho.

16 mm

93 mm

| | | | |
|--|--|--|---|
|  <p>INMETRO</p> | <h1>Energia</h1> <p>PROGRAMA BRASILEIRO DE ETIQUETAGEM</p> <p>Tecnologia: BIFACIAL - MONOSI Fornecedor: W M LAUDISIO JUNIOR Marca: RENE PV Modelo: ZY570M10NHB-144</p> | <p>22,1% Eficiência</p> <p>CLASSE A</p> |  <p>Nº de Registro 015136/2024</p> |
|--|--|--|---|