



Multi Busbar Monocrystalline Half Cell PV Module

MIC 4MxxxH54(H)

Mono Poly Solution

| Power Output | Power Tolerance | Maximum Efficiency |
|--------------|-----------------|--------------------|
| 385-420W | 0~+5W | 21.5% |



Assembled with multi-busbar cells, reduce shading effect on the energy generation, lower risk of hot spot



Pass the test for weather resistance in harsh environments (salt mist, ammonia corrosion and sand)



Process optimization of high efficiency PERC solar cell and strict control on raw materials to ensure highly resistance against PID of PV module



Better mechanical loading tolerance with the test front side 5400pa and back side 2400pa.



Series and parallel design, reduce the series resistance RS of module, reduce the loss of internal electrical performance, and improve the power generation capacity of whole system.

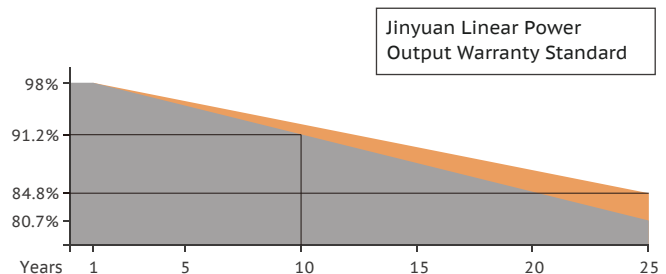


Cutting solar cell technology, which significantly reduces string current and module damage, it is good choice for projects in high temperature areas.



Jinyuan Offers Long-term Quality Assurance

- 12 years Product Warranty
- 25 years Linear Power Output Warranty
- The attenuation of the power output in the first year $\leq 2\%$, the annual average attenuation after the first year $\leq 0.55\%$



* More details please read the guarantee letter.

Product Certification & Management Certification

- IEC61215/IEC61730
- ISO 9001:Quality Management System
- ISO 14001:Environment Management System
- ISO 45001:Occupation Health Safety Management System



Note: Read and understand the installation and safety manual before installation. The copyright belongs to MIC Optoelectronic Co., Ltd. If any change will not further notice.

Multi Busbar Monocrystalline Half Cell PV Module

MIC 4MxxxH54(H)

Electrical performance parameters (STC)

| Power Output | Pmax(W) | 385 | 390 | 395 | 400 | 405 | 410 | 415 | 420 |
|-----------------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| Rated Power Maximum Voltage | Vmp(V) | 30.50 | 30.60 | 30.80 | 31.00 | 31.20 | 31.40 | 31.60 | 31.80 |
| Rated Power Maximum Current | Imp(A) | 12.64 | 12.73 | 12.81 | 12.90 | 12.98 | 13.04 | 13.13 | 13.22 |
| Open Circuit Voltage | Voc(V) | 36.70 | 36.90 | 37.00 | 37.10 | 37.20 | 37.30 | 37.50 | 37.70 |
| Short Circuit Current | Isc(A) | 13.52 | 13.61 | 13.70 | 13.79 | 13.87 | 13.95 | 14.02 | 14.09 |
| Module Efficiency | (%) | 19.7 | 20.0 | 20.2 | 20.5 | 20.7 | 21.0 | 21.3 | 21.5 |
| Power Tolerance | (W) | 0~+5W | | | | | | | |

* STC : 1000W/m2 irradiance, 25°C module temperature, AM1.5 spectrum.

Electrical performance parameters (NMOT)

| Power output | Pmax (W) | 291.4 | 295.2 | 299.0 | 302.8 | 306.6 | 310.4 | 314.2 | 317.9 |
|-----------------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|
| Rated Power Maximum Voltage | Vmp (V) | 28.27 | 28.37 | 28.55 | 28.74 | 28.92 | 29.11 | 29.29 | 29.48 |
| Rated Power Maximum Current | Imp (A) | 10.30 | 10.37 | 10.44 | 10.51 | 10.58 | 10.63 | 10.70 | 10.77 |
| Open Circuit Voltage | Voc (V) | 34.64 | 34.83 | 34.93 | 35.02 | 35.11 | 35.21 | 35.40 | 35.59 |
| Short Circuit Current | Isc (A) | 10.82 | 10.89 | 10.96 | 11.03 | 11.10 | 11.16 | 11.21 | 11.27 |

* NMOT:800W/m2 irradiance, 20°C module temperature, 1m/s wind speed.

Structure Features

| | |
|-----------------------------|--|
| Solar Cell | 182MONO(Half Cell) |
| Solar Cell Array | 108 pcs(6x18) |
| Module Dimension | 1722x1134x35mm |
| Weight | 20.8kg |
| Glass | 3.2 mm (0.12 inches) highly transparent anti-reflection coating tempered glass |
| Back sheet | White |
| Frame | Anodized Aluminum Alloy |
| Junction Box | IP68 rated |
| Cable | 4mm ² , L=300 mm, PV cable |
| Diode Quantity | 3 |
| Wind Pressure/Snow Pressure | 2400pa / 5400pa |
| Connector | MC4 Compatible |

* More details please read the installation manual.

Temperature Characteristics

| | |
|---------------------------------------|----------|
| Solar Cells Rated Working Temperature | 44±2 C |
| Temperature Coefficient (Isc) | +0.06%/C |
| Temperature Coefficient (Voc) | -0.35%/C |
| Temperature Coefficient (Pmax) | -0.38%/C |

Maximum Ratings

| | |
|----------------------------|-----------|
| Working Temperature | -40~+85 C |
| Maximum System Voltage | 1500V DC |
| Maximum Fuse Rated Current | 25A |

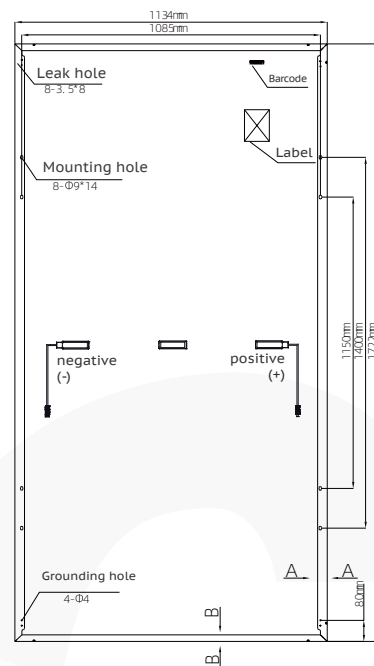
PACKAGING

| | |
|------------------------------|----------|
| Number of modules per pallet | 31 pcs |
| 17.5*2.8m Flatbed loading | 1178 pcs |
| 13.0*2.35m Flatbed loading | 868 pcs |
| 20GP Standard container | --- pcs |
| 40HQ Standard container | 806 pcs |

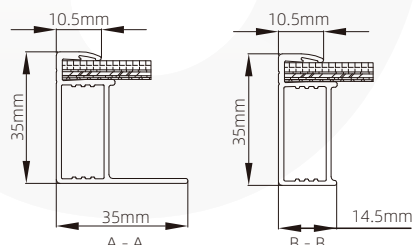
Optional

| | |
|------------------------|--|
| Connector | <input type="checkbox"/> Original MC4 |
| Cable length | <input type="checkbox"/> 1000mm <input type="checkbox"/> 900mm |
| Frame | <input type="checkbox"/> Black |
| Solar Module Dimension | <input type="checkbox"/> 1722x1134x40mm |
| Back sheet color | <input type="checkbox"/> Black <input type="checkbox"/> Transparency |

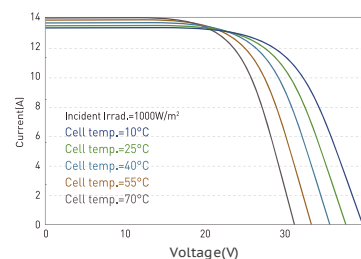
Module Dimension



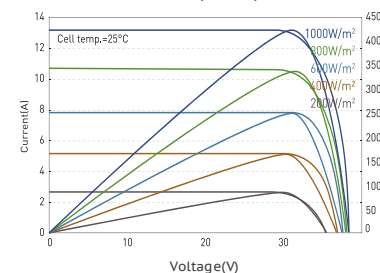
Back view



I-V curves of module under different temperature(405w)



I-V curves/P-V curves of module under different irradiation(405w)



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