



AFT-M12/120H

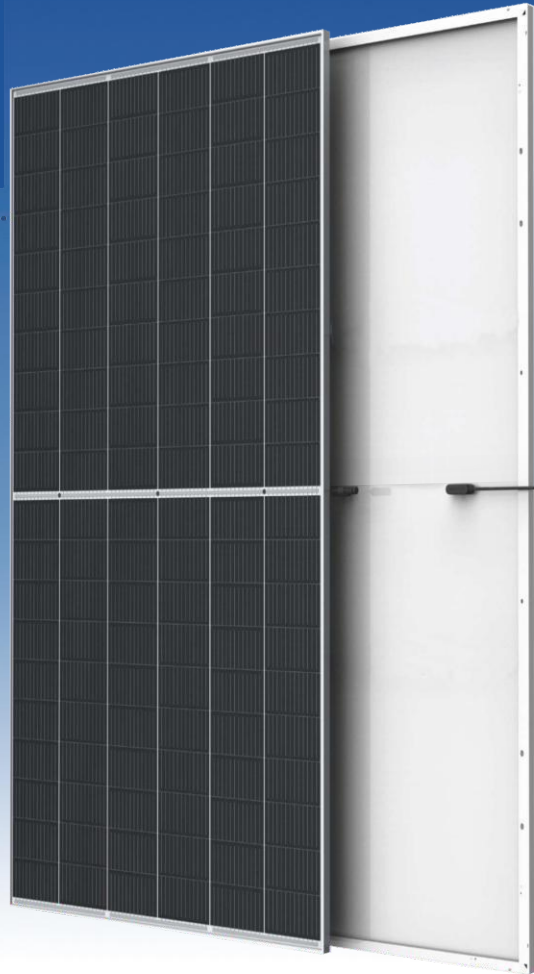
Monocrystalline Module

585-605W

Cell Type



12BB(210mm)



Payment Term:
D/P
D/A
O/A
flexible and negotiable

605W
Maximum Power Output

21.4%
Maximum Module Efficiency

0~+5W
Power Output Guarantee



Ideal choice for large scale ground installation



Selected encapsulating material and stringent production process control ensure the product is highly PID resistant and snail trails free



Special cutting and soldering technology leads to low hotspot risk



Sand blowing test, salt mist test and ammonia test passed to endure harsh environments



Optimized system performance due to module level current sorting

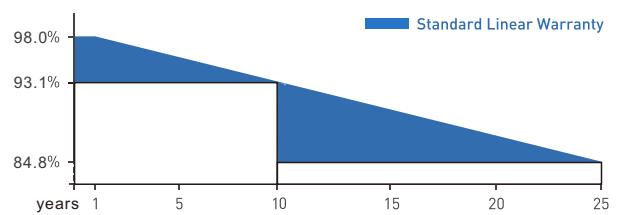


Highly transparent self-cleaning glass brings additional yield and easy maintenance

Deliver Reliable Performance Over Time

- manufacturer of crystalline silicon photovoltaic modules
- Fully automatic facility and world-class technology
- Rigorous quality control to meet the highest standard: ISO9001:2015, ISO14001: 2015 and OHSAS: 18001 2007
- Tested for harsh environments (salt mist, ammonia corrosion and sand blowing test: IEC 61701, IEC 62716, DIN EN 60068-2- 68)
- Long term reliability tests
- 2x100% EL inspection ensuring defect-free modules

Linear Performance Warranty



12 Years Product Warranty 25 Years Linear Power Warranty

* Please refer to standard warranty for details

Product Certification



AFT-M12/120H

Monocrystalline Module

585-605W

Electrical Specification (STC*)

| | | | | | | |
|------------------------|---------|-------|-------|-------|-------|-------|
| Maximum Power | Pmax(W) | 585 | 590 | 595 | 600 | 605 |
| Maximum Power Voltage | Vmp(V) | 33.8 | 34.0 | 34.2 | 34.4 | 34.6 |
| Maximum Power Current | Imp(A) | 17.31 | 17.35 | 17.40 | 17.44 | 17.49 |
| Open Circuit Voltage | Voc(V) | 40.9 | 41.1 | 41.3 | 41.5 | 41.7 |
| Short Circuit Current | Isc(A) | 18.37 | 18.42 | 18.47 | 18.52 | 18.57 |
| Module Efficiency | (%) | 20.7 | 20.9 | 21.0 | 21.2 | 21.4 |
| Power Output Tolerance | (W) | 0~+5 | | | | |

* Irradiance 1000W/m², Module Temperature 25°C, Air Mass 1.5

Electrical Specification (NOCT*)

| | | | | | | |
|-----------------------|----------|-------|-------|-------|-------|-------|
| Maximum Power | Pmax (W) | 443 | 447 | 451 | 454 | 458 |
| Maximum Power Voltage | Vmp (V) | 31.5 | 31.7 | 31.9 | 32.0 | 32.2 |
| Maximum Power Current | Imp (A) | 14.05 | 14.09 | 14.13 | 14.18 | 14.22 |
| Open Circuit Voltage | Voc(V) | 38.5 | 38.7 | 38.9 | 39.1 | 39.3 |
| Short Circuit Current | Isc (A) | 14.81 | 14.85 | 14.88 | 14.92 | 14.96 |

* Irradiance 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

Mechanical Data

| | |
|---------------------------------|----------------------------------------------------------------------|
| Number of Cells | 120 Cells (6x20) |
| Dimensions of Module L*W*H (mm) | 2172x1303x35mm (85.51x51.29x1.38 inches) |
| Weight (kg) | 30.7 kg |
| Glass | High transparency solar glass 3.2mm (0.13 inches) |
| Backsheet | White |
| Frame | Silver, anodized aluminium alloy |
| J-Box | IP68 Rated |
| Cable | 4.0mm ² (0.006 inches ²), 300mm (11.8 inches) |
| Number of diodes | 3 |
| Wind/ Snow Load | 2400Pa/ 5400Pa* |
| Connector | MC Compatible |

* For more details please check the installation manual

Temperature Ratings

| | |
|-------------------------------------------|------------|
| Nominal Operating Cell Temperature (NOCT) | 43±2°C |
| Temperature Coefficient of Isc | +0.040%/°C |
| Temperature Coefficient of Voc | -0.250%/°C |
| Temperature Coefficient of Pmax | -0.340%/°C |

Maximum Ratings

| | |
|-------------------------|---------------|
| Operational Temperature | -40~+85°C |
| Maximum System Voltage | 1500V DC -(H) |
| Max Series Fuse Rating | 25A |

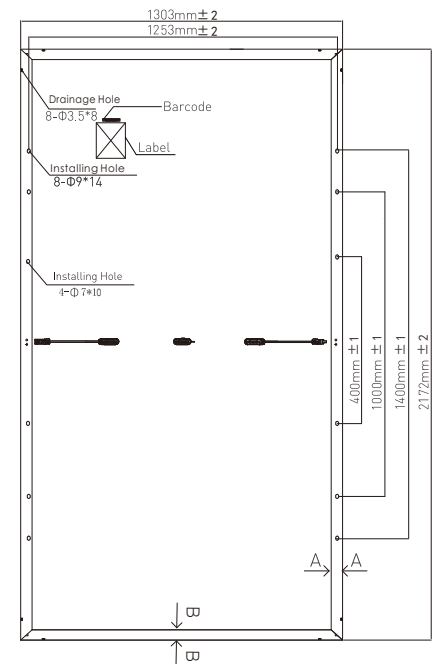
Packaging Configuration

| | |
|--------------------------|------------|
| Module per box | 31 pieces |
| Module per 40' container | 558 pieces |

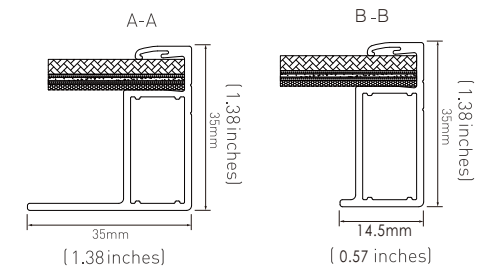
Optional

| | |
|-----------|-------------------------------------------------|
| Connector | <input checked="" type="checkbox"/> MC Original |
|-----------|-------------------------------------------------|

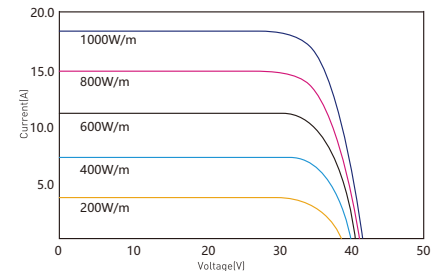
Module Dimension



Back View



I-V Curve at Different Temperature (595W)



P-V Curve at Different Irradiation (595W)

