

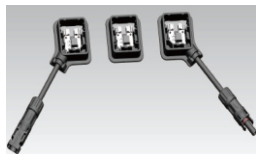
AU-156MH

POWER RANGE

585W~595W

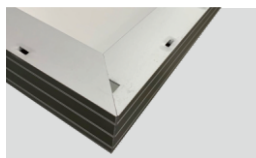
CELL SIZE

182*91mm



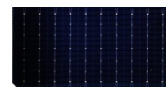
JUNCTION BOX

Waterproof protection grade: IP67/IP68
 Safety Level: Class II
 Maximum System Voltage: 1500V
 outstanding waterproof level ·
 Effectively resist harsh environments



Frame

Strong machinical load
 resistance up to 5400Pa
 Anodic oxidation layer resistant to
 chemical corrosion available
 in silver and black



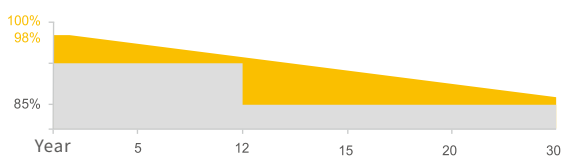
10BB

QUALIFICATIONS AND CERTIFICATES



· IEC61215 / · IEC61730

WARRANTY



12 YEARS

Guarantee on product material and workmanship

30 YEARS

Linear Power output warranty



Half-cut Technology

New circuit design, lower internal current and lower internal resistance loss



Significantly avoiding heat spot

The unique circuit design to reduce the temperature of heat spot significantly, so that to reduce the power loss and then increase the output of modules.



Lower cost

Increasing power generation can reduce the cost per kilowatt-hour



Excellent performance of PID resistance

The performance of PID resistance (Potential Induced Degradation) passed the standard of TUV Nord.

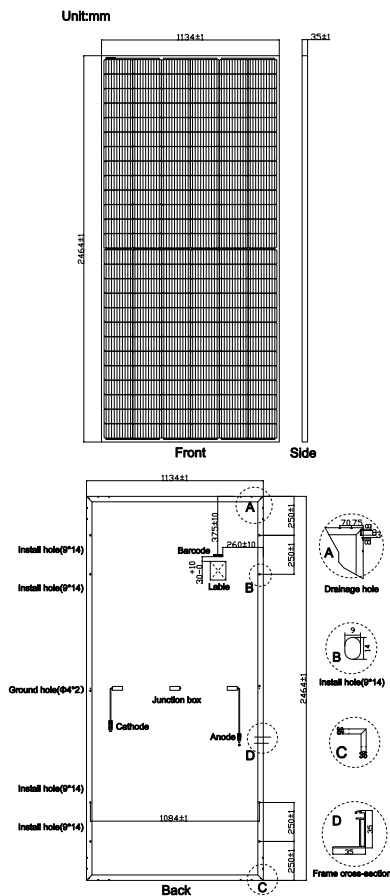
AUSTA ENERGY
www.austagroup.com

AUSTA ENERGY established in 2008, is a high-tech enterprise integrating R&D, production and sales of solar energy products. It is committed to the overall solution of distributed photovoltaic system and provides services from consulting, design, construction, financing to intelligent operation and maintenance.

AUSTA has 3 production sites in China and branches and representative offices in more than 10 countries overseas. Products include solar cells, modules, On/Off grid solar system, solar pump and other solar related applications. Our products have passed many international certifications such as TUV, MCS, CEC, IEC, ISO, CE, CQC and so on. With excellent quality, our products are exported to more than 100 countries of the world.

Since its establishment, AUSTA has always followed the idea of "Smart energy, Lightning future". It has followed the steps of "the Belt and Road Initiative", we bring bright light to the countries and people who are short of electricity. Sharing the concept of modern civilization, and building a green home together.

PV DRAWINGS



ELECTRICAL DATA (STC)

| Model Type | AU585-39V-MH | AU590-39V-MH | AU595-39V-MH |
|----------------------------|--------------|--------------|--------------|
| Peak Power(Pmax) | 585.00 | 590.00 | 595.00 |
| Maximum Power Voltage(Vmp) | 45.23 | 45.40 | 45.57 |
| Maximum Power Current(Imp) | 12.93 | 13.01 | 13.06 |
| Open Circuit Voltage(Voc) | 53.83±3% | 53.03±3% | 54.23±3% |
| Short Circuit Current(Isc) | 13.72±3% | 13.82±3% | 13.89±3% |
| Module Efficiency(%) | 20.93 | 21.11 | 21.29 |

* STC: irradiance 1000 W/m², AM 1.5, and cell temperature of 25°C

ELECTRICAL DATA (NOCT)

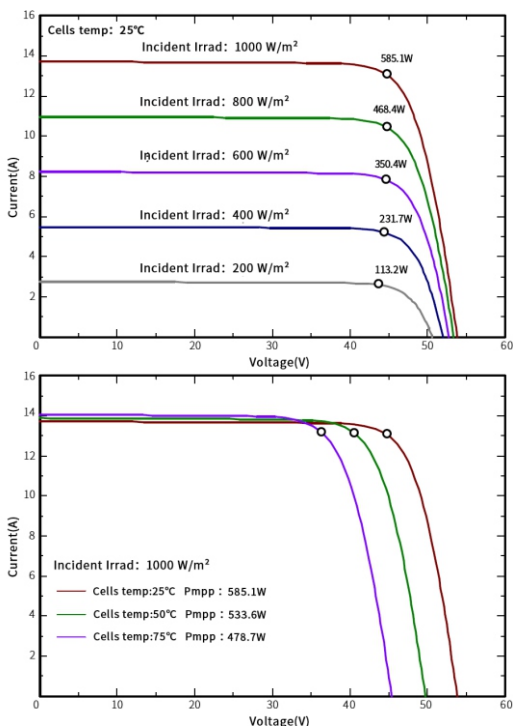
| Model Type | AU585-39V-MH | AU590-39V-MH | AU595-39V-MH |
|----------------------------|--------------|--------------|--------------|
| Peak Power(Pmax) | 434.90 | 438.90 | 442.30 |
| Maximum Power Voltage(Vmp) | 42.00 | 42.15 | 42.31 |
| Maximum Power Current(Imp) | 10.36 | 10.41 | 10.45 |
| Open Circuit Voltage(Voc) | 50.41±3% | 50.59±3% | 50.78±3% |
| Short Circuit Current(Isc) | 11.06±3% | 11.13±3% | 11.19±3% |

* NOCT: irradiance 800 W/m², AM 1.5, ambient temperature 20°C, wind speed 1 m/s

TEMPERATURE & MAXIMUM RATING

| | |
|--|-------------|
| Maximum System Voltage (V) | 1500 V |
| Maximum Series Fuse Rating (A) | 25 A |
| Power Tolerance | 0~+3 W |
| Pmax Temperature Coefficients (W/°C) | -0.350 %/°C |
| Voc Temperature Coefficients (V/°C) | -0.285 %/°C |
| Isc Temperature Coefficients (A/°C) | +0.045 %/°C |
| NOCT Nominal Operating Cell Temperature (°C) | 45±2 °C |
| Operating and Storage Temperature (°C) | -40~+85 °C |

IV CURVE (585W)



MECHANICAL CHARACTERISTICS

| | |
|------------------------|---|
| Cell Type | 182*91 Mono |
| No. of Cells | 156 (12*13) |
| Dimensions | 2464*1134*35mm |
| Weight | 30.70kg |
| Front Glass | 3.2mm high transmission, low iron, tempered glass |
| Frame | Anodized Aluminium Alloy |
| Junction box | IP67/IP68 3diodes |
| Output cables | 4mm ² cable 35cm (Including MC4 connector) |
| MaxWind Load/Snow Load | 2400Pa/5400Pa |

PACKING WAY

| | |
|----------------|--------------------|
| 20FT container | 4 Packages/124pcs |
| 40HQ container | 18 Packages/558pcs |

Austa



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The company reserves the right of final interpretation, November 2020 edition