

## AU-156MHD

**POWER RANGE** 

465W~495W

**CELL SIZE** 

166\*83mm





#### **IUNCTION BOX**

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





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

Cec



#### **Higher power**

Double-sided power generation can significantly improve the equivalent power generation of solar panels. Higher power of solar panels can effectively reduce system BOS cost.



#### Higher reliability

Suitable for areas with higher temperature and higher humidity. resistant to salt spray ammonia gas with firing rating in A. Anti-PID performance improvement through battery process optimization and material control.



#### Higher generated energy

Excellent IAM and low light performance. More power generation by lower temperature coefficient and lower operating temperature.

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#### Easy installation

The conventional frame design makes the double-glass solar panels suitable for various mounting modes. Easy to hold, transport and install.



**QUALIFICATIONS AND CERTIFICATES** 





Guarantee on product materail and workmanship

Linear Power output warranty

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.

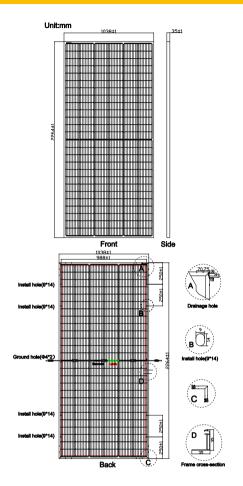
AUSTA has 3 production sites in China and branches and representative offices in more than 10 countries overseas. Products include solar cells, modules, On/Off grid solar system, solar pump and other solar related applications. Our products have passed many international certifications such as TUV, MCS, 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, Lightening 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.



# **AU-156MHD**

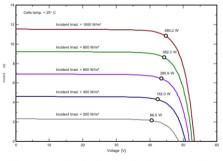
## **PV DRAWINGS**

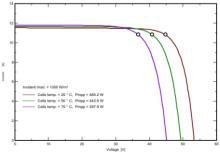


PA	Ck		NG	W	VΔ	V
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20FT container	5 Packages/155pcs
40HQ container	20 Packages/660pcs

### IV CURVE (485W)





## **ELECTRICAL DATA (STC)**

Model Type	AU465-39V -MHD	AU475-39V -MHD	AU485-39V -MHD	AU495-39V -MHD
Peak Power(Pmax)	465.00	475.00	485.00	495.00
Maximum Power Voltage(Vmp)	43.94	44.34	44.74	45.14
Maximum Power Current(Imp)	10.58	10.71	10.84	10.97
Open Circuit Voltage(Voc)	52.89±3%	53.29±3%	53.69±3%	54.09±3%
Short Circuit Current(Isc)	11.17±3%	11.35±3%	11.53±3%	11.71±3%
Module Efficiency( % )	19.78	20.22	20.63	21.06

 $<sup>^{\</sup>star}$  STC: irradiance 1000 W/m , AM 1.5, and cell temperature of 25°C

#### **ELECTRICAL DATA (NOCT)**

Model Type	AU465-39V -MHD	AU475-39V -MHD	AU485-39V -MHD	AU495-39V -MHD
Peak Power(Pmax)	347.50	354.90	362.30	369.70
Maximum Power Voltage(Vmp)	40.92	41.32	41.72	42.12
Maximum Power Current(Imp)	8.51	8.60	8.70	8.79
Open Circuit Voltage(Voc)	49.11±3%	49.71±3%	50.11±3%	50.51±3%
Short Circuit Current(Isc)	9.03±3%	9.17±3%	9.31±3%	9.45±3%

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

#### PARAMETER OF DOUBLE-SIDED POWER GENERATION (485W)

Pmax gain	Pmax/W	Vmpp/V	Impp/A	Voc/V	Isc/A
5%	509.00	44.74	11.38	53.69±3%	12.10±3%
15%	534.00	44.74	11.94	53.69±3%	12.70±3%
25%	558.00	44.84	12.45	53.79±3%	13.24±3%

## **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)	-0.284 %/°C
Isc Temperature Coefficients (A/°C)	+0.050 %/°C
NOCT Nominal Operating Cell Remperature (°C)	45±2°C
Operating and Storage Temperature (°C)	-40~+85 °C

#### **MECHANICAL CHARACTERISRTICS**

Cell Type	166*83 Mono
No. of Cells	156 (12*13)
Dimensions	2094*1038*35mm
Weight	29.75kg
Front glass	2.0mm coated high-transparent tempered glass
Backglass	2.0mm high-transparent glass
Frame	Anodized Aluminium Alloy
Junction box	IP67/IP68 3diodes
Output cables	4mm² cable 35cm (Inlcuding MC4 connector)
MaxWind Load/Snow Load	2400Pa/5400Pa





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