

# AU-120MH

## POWER RANGE

**440W~460W**

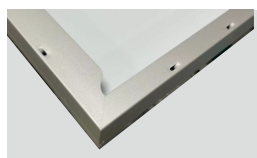
## CELL SIZE

**182\*91mm**



### JUNCTION BOX

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

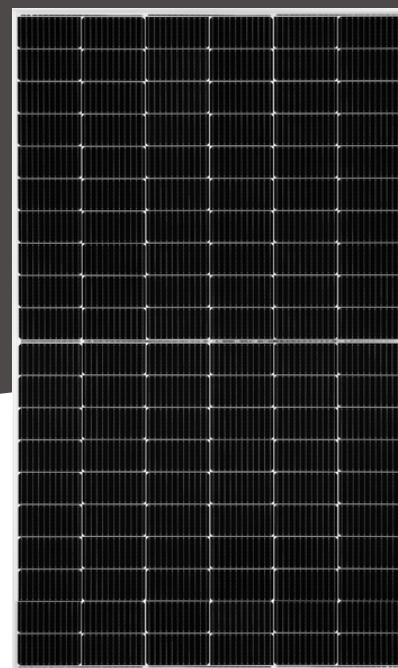


### Frame

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



10BB

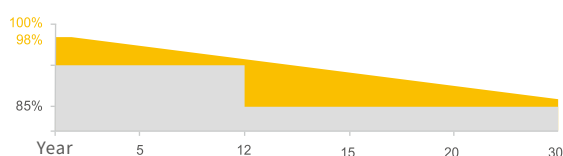


## QUALIFICATIONS AND CERTIFICATES



· 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.

**ZHEJIANG AUSTA GREEN ENERGY TECHNOLOGY CO., LTD**

[www.austagroup.com](http://www.austagroup.com)

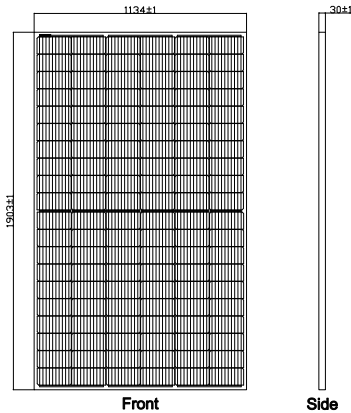
AUSTA ENERGY established in 2008, is a high-tech enterprise integrating R&D, production and sales of solar energy products. It is committed to the overall solution of distributed photovoltaic system and provides services from consulting, design, construction, financing to intelligent operation and maintenance.

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, 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.

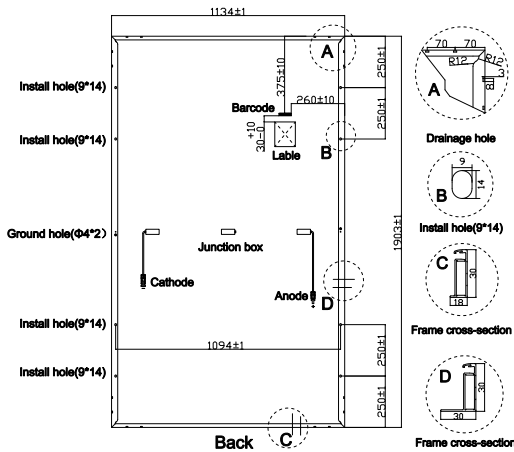
## PV DRAWINGS

Unit:mm



Front

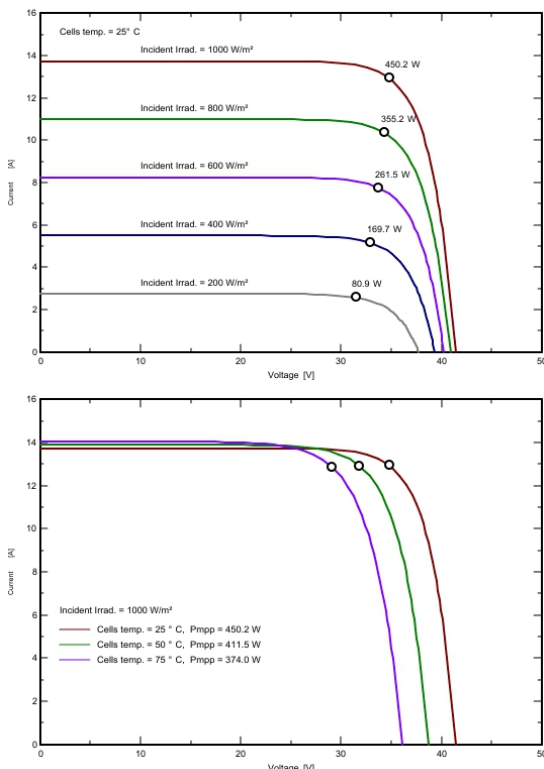
Side



Back

Frame cross-section

## IV CURVE (450W)



## ELECTRICAL DATA (STC)

Model Type	AU440-30V-MH	AU445-30V-MH	AU450-30V-MH	AU455-30V-MH	AU460-30V-MH
Peak Power(Pmax)	440.00	445.00	450.00	455.00	460.00
Maximum Power Voltage(Vmp)	34.47	34.63	34.79	34.95	35.11
Maximum Power Current(Imp)	12.77	12.86	12.94	13.02	13.11
Open Circuit Voltage(Voc)	41.00±3%	41.20±3%	41.40±3%	41.60±3%	41.80±3%
Short Circuit Current(Isc)	13.56±3%	13.65±3%	13.74±3%	13.83±3%	13.93±3%
Module Efficiency( % )	20.39	20.62	20.85	21.08	21.32

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

## ELECTRICAL DATA (NOCT)

Model Type	AU440-30V-MH	AU445-30V-MH	AU450-30V-MH	AU455-30V-MH	AU460-30V-MH
Peak Power(Pmax)	327.10	330.80	334.50	338.20	342.20
Maximum Power Voltage(Vmp)	31.97	32.13	32.29	32.45	32.61
Maximum Power Current(Imp)	10.24	10.30	10.36	10.43	10.50
Open Circuit Voltage(Voc)	38.41±3%	38.59±3%	38.77±3%	38.95±3%	39.14±3%
Short Circuit Current(Isc)	10.91±3%	10.99±3%	11.07±3%	11.15±3%	11.22±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 Remperature (°C)	45±2 °C
Operating and Storage Temperature (°C)	-40~+85 °C

## MECHANICAL CHARACTERISRTICS

Cell Type	182*91 Mono
No. of Cells	120 (12*10)
Dimensions	1903*1134*30mm
Weight	23.80kg
Front Glass	3.2mm high transmission, low iron, tempered glass
Frame	Anodized Aluminium Alloy
Junction box	IP67/IP68 3diodes
Output cables	4mm² cable 35cm (Including MC4 connector)
MaxWind Load/Snow Load	2400Pa/5400Pa

## PACKING WAY

20FT container	6 Packages/222pcs
40HQ container	24 Packages/888pcs

Austa



We Are Seeking Agents And Partners!

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The company reserves the right of final interpretation, August 2022 edition