

# AU-72LM

POWER RANGE

**410W~450W**

CELL FEATURE

**166\*166, 22.80%**



### JUNCTION BOX

High waterproof rating  
Protection Degree: IP67  
Safety Class: Class II  
Rated Voltage: 1500V



### FRAME

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



5BB



9BB



### MBB CELLS

More uniform current collection reduces the current loss of the cell inside panels



### Anti-reflective glass

Increases the light absorption, and reduces the power loss caused by the self-cleaning in rain.



### Excellent performance in low irradiance

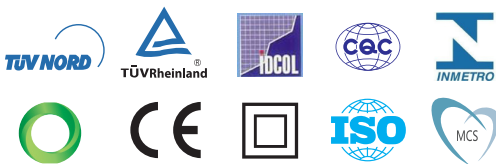
Enable solar panels to generate electricity in the morning, cloudy and rainy days.



### PID Resistant

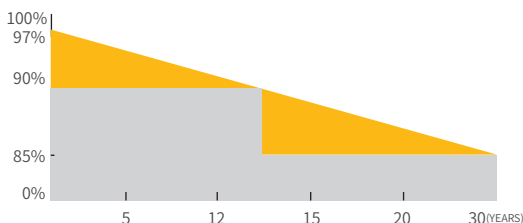
Perfect resistance against PID (Potential Induced Degradation) to secure your investment.

## QUALIFICATIONS AND CERTIFICATES



• IEC61215 / • IEC61730

## WARRANTY



12 YEARS

Guarantee on product material and workmanship

30 YEARS

Linear Power output warranty

**AUSTA ENERGY**  
www.austagroup.com

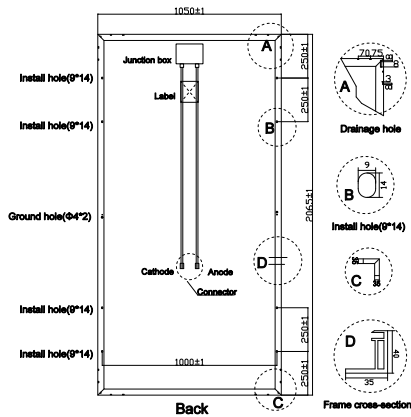
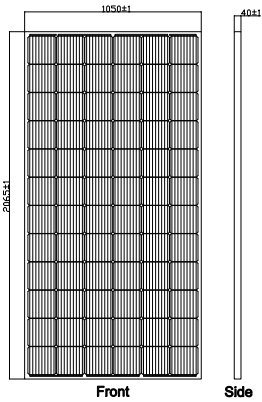
AUSTA ENERGY, established in 2009, is a high-tech enterprise specializing in R&D, production and sales of photovoltaic products, such as solar modules, silicon rods, cells, etc., as well as the investment and operation of solar power plant. The capacity of solar modules can reach 1 GW a year.

Located in Ningbo, AUSTA has a sound market network over Europe, America, Asia, Oceania and Africa. The subordinate branches and representative offices are located in more than 10 countries including Germany, Denmark, Bangladesh, Burma, India, etc.

AUSTA contributes to a cleaner and greener environment by helping people use alternative energy, which hopefully can lead to a brighter and more prosperous future for human being.

## PV DRAWINGS

Unit:mm



## ELECTRICAL DATA (STC)

Model Type	AU410-36-M	AU420-36-M	AU430-36-M	AU440-36-M	AU450-36-M
Peak Power(Pmax)	410.00	420.00	430.00	440.00	450.00
Maximum Power Voltage(Vmp)	39.62	39.82	40.02	40.22	40.42
Maximum Power Current(Imp)	10.35	10.55	10.75	10.94	11.14
Open Circuit Voltage(Voc)	48.06	48.30	48.54	48.79	49.03
Short Circuit Current(Isc)	10.93	11.14	11.35	11.55	11.76
Cells Efficiency( % )	20.78	21.28	21.79	22.30	22.80
Module Efficiency( % )	18.90	19.37	19.83	20.29	20.75

\* STC: irradiance 1000 W/m<sup>2</sup>, AM 1.5, and cell temperature of 25° C

## ELECTRICAL DATA (NOCT)

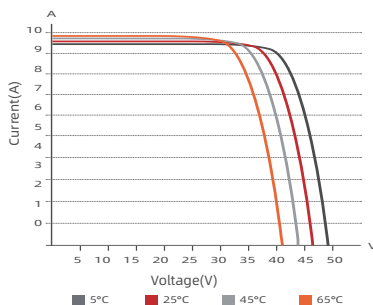
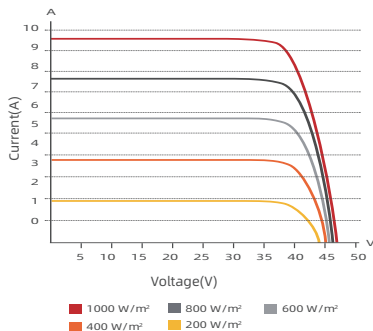
Model Type	AU410-36-M	AU420-36-M	AU430-36-M	AU440-36-M	AU450-36-M
Peak Power(Pmax)	304.00	312.00	319.00	327.00	334.00
Maximum Power Voltage(Vmp)	37.04	37.23	37.42	37.61	37.79
Maximum Power Current(Imp)	8.21	8.39	8.53	8.70	8.84
Open Circuit Voltage(Voc)	45.34	45.57	45.80	46.03	46.25
Short Circuit Current(Isc)	8.71	8.90	9.05	9.23	9.38

\* NOCT: irradiance 800 W/m<sup>2</sup>, AM 1.5, ambient temperature 20° C, wind speed 1 m/s

## TEMPERATURE & MAXIMUM RATING

Maximum System Voltage(V)	1500
Maximum Series Fuse Rating(A)	20
Power Tolerance	0 ~ +3 %
Pmax Temperature Coefficients(W/°C )	-0.370 %
Voc Temperature Coefficients(V/°C )	-0.286 %
Isc Temperature Coefficients(A/°C )	+0.057 %
NOCT Nominal Operating Cell Temperature(°C )	45±2
Operating and Storage Temperature(°C )	-40 ~ +85

## IV CURVE



## MECHANICAL CHARACTERISTICS

Cell Type	166x166 Mono
No. of Cells	72(6x12)
Dimensions	2065x1050x40
Weight	23kg
Front Glass	3.2mm high transmission, low iron, tempered glass
Frame	Anodized Aluminium Alloy
Junction box	IP65/IP67
Output cables	4mm <sup>2</sup> cable 90cm+mc4
MaxWind Load/Snow Load	2400Pa/5400Pa

## PACKING WAY

20FT container	5 Packages/135PCS
40HQ containe	22 Packages/594PCS

**Austa**



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