

# **AU-144MH**

**POWER RANGE** 

525W~550W

**CELL SIZE** 

182\*91mm



### **IUNCTION 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















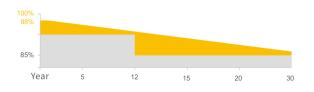






·IEC61215 / · IEC61730

## WARRANTY





Guarantee on product materail and workmanship

Linear Power output warranty



10BB





### **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.



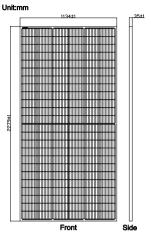
AUSTA ENERGY established in 2008, is a high-tech enterprise integrating R&D, production and sales of solar energy products. It is committed to the overall solution of distributed photovoltaic system and provides services from consulting, design, construction, financing to intelligent operation and maintenance.

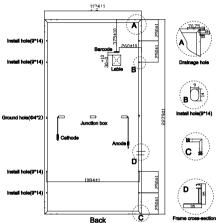
AUSTA has 3 production sites in China and branches and representative offices in more than 10 countries overseas. Products include solar cells, modules, On/Off grid solar system, solar pump and other solar related applications. Our products have passed many international certifications such as TUV, MCS, 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-144MH**

## **PV DRAWINGS**





# **ELECTRICAL DATA (STC)**

Model Type	AU525-36V -MH	AU535-36V -MH	AU540-36V -MH	AU545-36V -MH	AU550-36V -MH
Peak Power(Pmax)	525.00	535.00	540.00	545.00	550.00
Maximum Power Voltage(Vmp)	41.28	41.60	41.76	41.93	42.10
Maximum Power Current(Imp)	12.72	12.84	12.93	13.00	13.16
Open Circuit Voltage(Voc)	49.10±3%	49.50±3%	49.70±3%	49.90±3%	50.10±3%
Short Circuit Current(Isc)	13.56±3%	13.74±3%	13.83±3%	13.92±3%	14.01±3%
Module Efficiency(%)	20.31	20.70	20.89	21.08	21.28

 $<sup>^{\</sup>star}$  STC: irradiance 1000 W/m², AM 1.5, and cell temperature of 25°C

## **ELECTRICAL DATA (NOCT)**

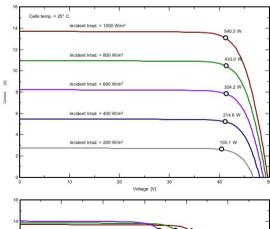
Model Type	AU525-36V -MH	AU535-36V -MH	AU540-36V -MH	AU545-36V -MH	AU550-36V -MH
Peak Power(Pmax)	390.30	397.7	401.4	405.1	408.9
Maximum Power Voltage(Vmp)	38.30	38.62	38.78	38.93	39.09
Maximum Power Current(Imp)	10.20	10.30	10.35	10.41	10.46
Open Circuit Voltage(Voc)	46.00±3%	46.36±3%	46.54±3%	46.73±3%	46.92±3%
Short Circuit Current(Isc)	10.81±3%	10.97±3%	11.05±3%	11.13±3%	11.20±3%

<sup>\*</sup> 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

# IV CURVE (540W)



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6 - 11101	Cells temp. = 25		0.3 W		11	1	
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2						1 1	

## **MECHANICAL CHARACTERISRTICS**

Cell Type  No. of Cells  Dimensions  Weight  Front Glass  Frame  Junction box	Cell Type	182*91 Mono	
	No. of Cells	144 (12*12)	
	Dimensions	2279*1134*35mm	
	Weight	28.40kg	
	Front Glass	3.2mm high transmission, low iron, tempered glass	
	Frame	Anodized Aluminium Alloy	
	IP67/IP68 3diodes		
	Output cables	4mm <sup>2</sup> cable 55cm (Inlcuding MC4 connector)	
	MaxWind Load/Snow Load	2400Pa/5400Pa	

## **PACKING WAY**

20FT container	5 Packages/155pcs
40HQ container	20 Packages/620pcs





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