

# V-TAC

Meaningful Innovation.

## 545W Mono Half Solar Panel



### 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.



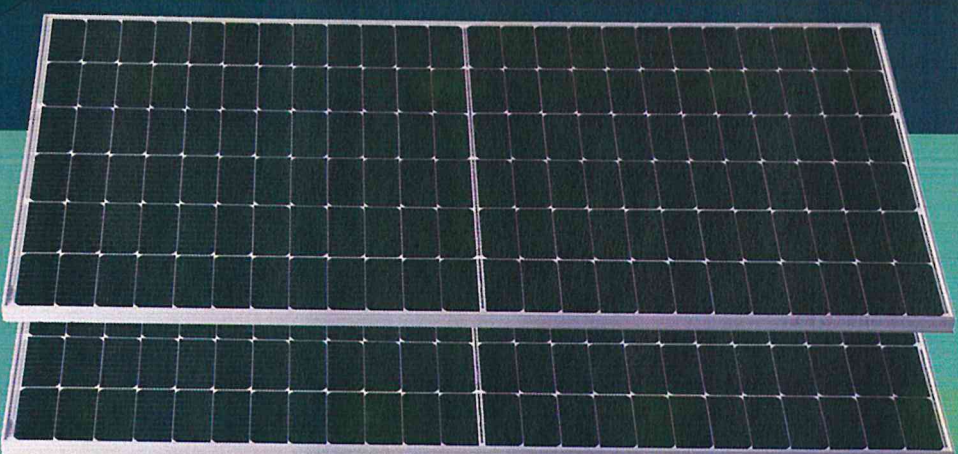
### LOWER COST

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.



V-TAC.EU



VTACEXPORTS.COM

TUV NORD



CE



### LISTING DETAILS

### MASTER BOX PACKAGING

Model No:	VT-545W	Qty Per Pallet:	31pcs/pallet
SKU Code:	11354	Net Weight :	28.40kg
FAN Code:	3800157682220	Product Size :	2279*1134*35mm

### ELECTRICAL DATA (STC)

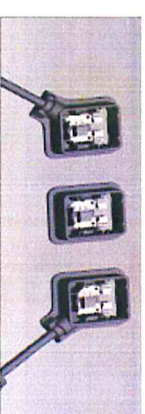
### ELECTRICAL DATA (NOCT)

Peak Power(P <sub>max</sub> )	545.00	Peak Power(P <sub>max</sub> )	405.1
Maximum Power Voltage(V <sub>mp</sub> )	41.93	Maximum Power Voltage(V <sub>mp</sub> )	38.93
Maximum Power Current(I <sub>mp</sub> )	13.00	Maximum Power Current(I <sub>mp</sub> )	10.41
Open Circuit Voltage(V <sub>oc</sub> )	49.90±3%	Open Circuit Voltage(V <sub>oc</sub> )	46.73±3%
Short Circuit Current(I <sub>sc</sub> )	13.92±3%	Short Circuit Current(I <sub>sc</sub> )	11.13±3%
Module Efficiency(%)	21.08		

### MECHANICAL CHARACTERISTICS

### TEMPERATURE & MAXIMUM RATING

Cell Type	182*91 Mono	Maximum System Voltage (V)	1500 V
No. of Cells	144 (12*12)	Maximum Series Fuse Rating (A)	25 A
Front Glass	3.2mm high transmission, low iron, tempered glass	Power Tolerance	0~+3 W
Frame	Anodized Aluminium Alloy	P <sub>max</sub> Temperature Coefficient (W/°C)	-0.350 %/°C
Junction box	IP67/IP68 3diodes	V <sub>oc</sub> Temperature Coefficient (V/°C)	-0.285 %/°C
Output cables	4mm <sup>2</sup> cable 55cm (Including MC4 connector)	I <sub>sc</sub> Temperature Coefficient (A/°C)	+0.045 %/°C
MaxWind Load/Snow Load	2400Pa/5400Pa	NOCT Nominal Operating Cell Temperature (°C)	45±2°C
		Operating and Storage Temperature (°C)	-40~+85°C



### JUNCTION BOX

Waterproof protection grade:IP67/IP68  
 Safety Level: Class II  
 Maximum System Voltage: 1500V

Outstanding waterproof level. Effectively resist harsh environments

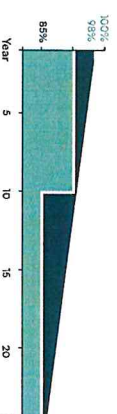


### FRAME

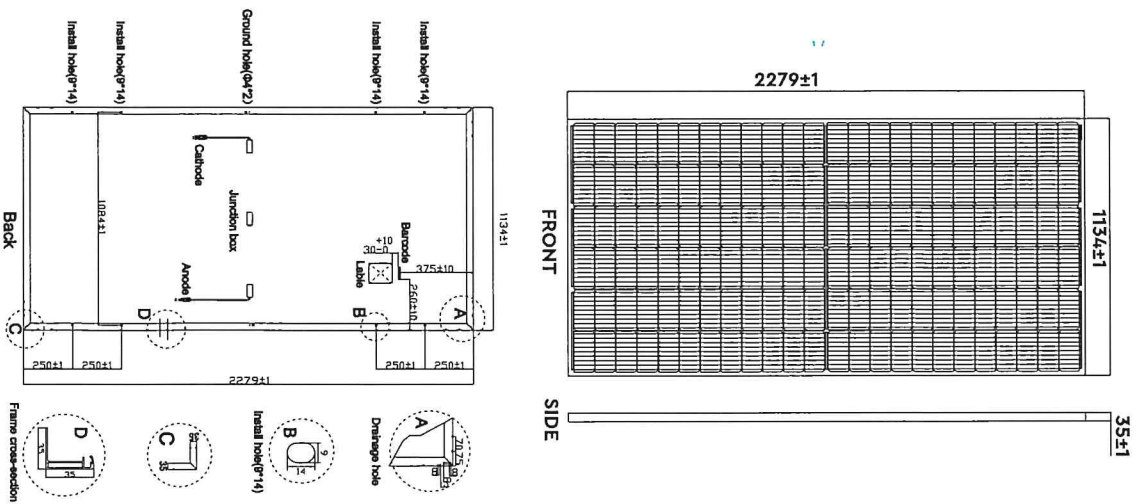
Strong mechanical load resistance up to 5400Pa  
 Anodic oxidation layer resistant to chemical corrosion  
 available in silver and black

**10 YEAR WARRANTY**  
 PRODUCT MATERIAL AND WORKMANSHIP

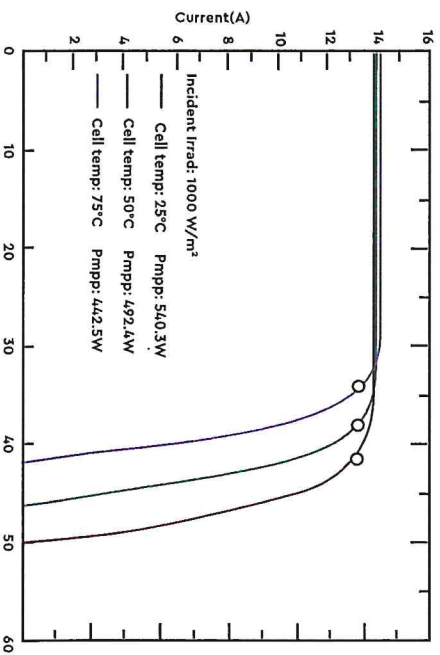
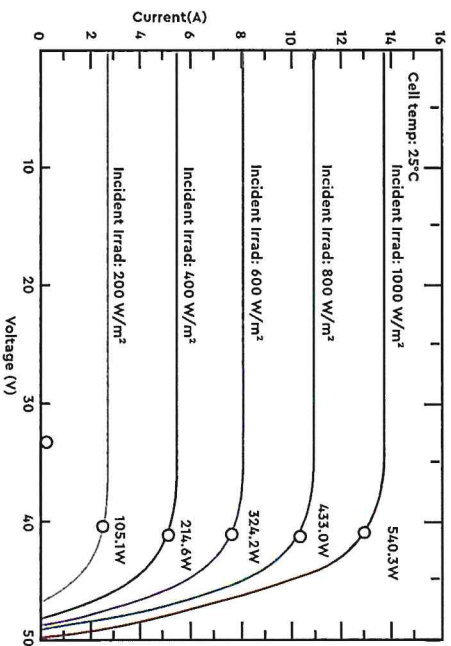
**25 YEAR WARRANTY**  
 LINEAR POWER OUTPUT



### DRAWING AND DIMENSION



### IV CURVE



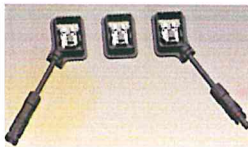
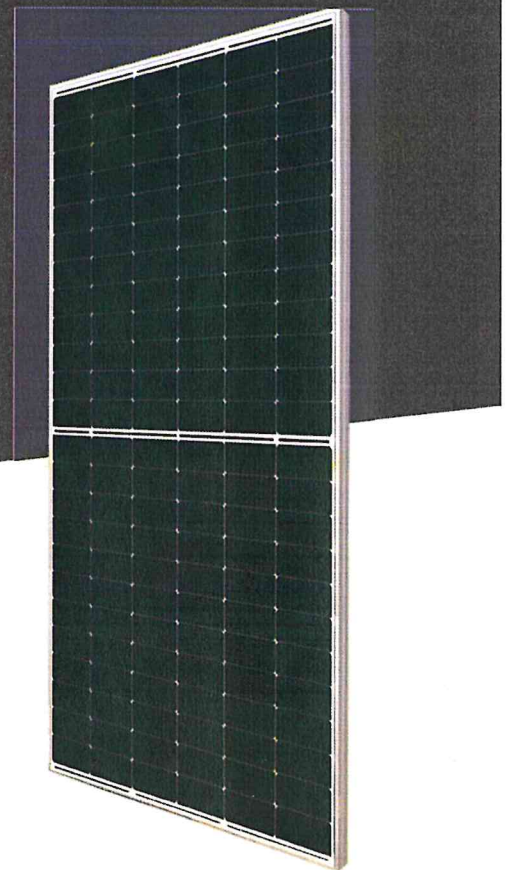
# AU545-36V-MH

## Dimensions

2256\*1133\*35MM

## CELL SIZE

182\*91mm

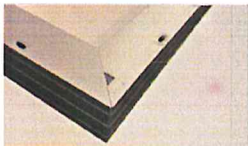


### JUNCTION BOX

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



10BB



### Frame

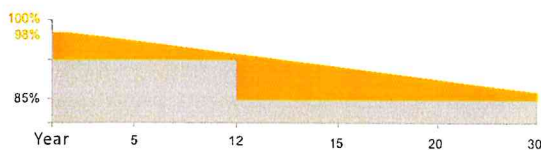
Strong machanical load  
resistance up to 5400Pa  
Anodic oxidation layer resistant to  
chemical corrosion available  
in silver and black

## 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](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.

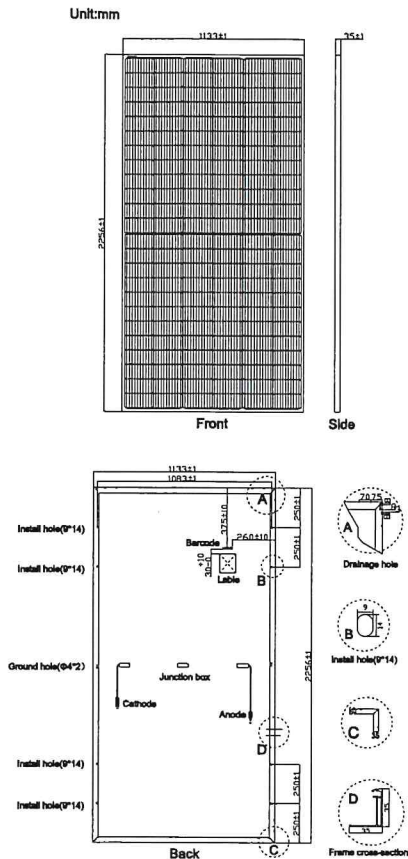
AUSTA has 3 production sites in China and branches and representative offices in more than 10 countries overseas. Products include solar cells, modules, On/Off grid solar system, solar pump and other solar related applications. Our products have passed many international certifications such as TUV, MCS,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

# AU545-36V-MH

AUSTA ENERGY  
www.austagroup.com

## PV DRAWINGS



## ELECTRICAL DATA (STC)

Model Type	AU545-36V-MH
Peak Power(Pmax)	545.00
Maximum Power Voltage(Vmp)	41.93
Maximum Power Current(Imp)	13.00
Open Circuit Voltage(Voc)	49.90±3%
Short Circuit Current(Isc)	13.92±3%
Module Efficiency( % )	21.08

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

## ELECTRICAL DATA (NOCT)

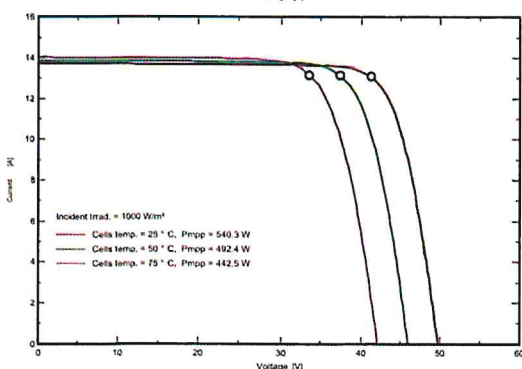
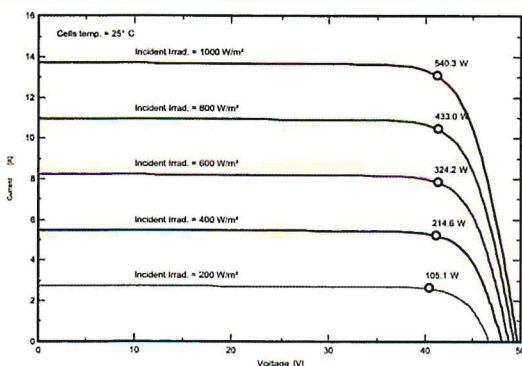
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Maximum Power Current(Imp)	10.41
Open Circuit Voltage(Voc)	46.73±3%
Short Circuit Current(Isc)	11.13±3%

\* 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 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
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MaxWind Load/Snow Load	2400Pa/5400Pa

## PACKING WAY

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

**Austa**



ZHEJIANG AUSTA GREEN ENERGY TECHNOLOGY CO., LTD  
ADD: NO.128 Haichuan Rd, Jiangbei Dist., Ningbo, China

Tel : 86-574-87915068

Cell: 86-13566302808

E-mail : sales@austagroup.com

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