

-KEY FEATURES-



## **Excellent Cells Efficiency**

MBB technology reduce the distance between busbars and finger grid line which is benefit to power increase.



## Anti PID

Ensured PID resistance through the quality control of cell manufacturing process and raw materials.



## TIER 1

Global, Tier 1 bankable brand, with independently certified advanced automated manufacturing.



# **Bifacial Technology**

Up to 25% additional power gain from back side depending on albedo.



## **Better Weak Illumination Response**

More power output in weak light condition, such as haze, cloudy, and early morning.



## Adapt To Harsh Outdoor Environment

Resistant to harsh environments such as salt, ammonia, sand, high temperature and high humidity environment.



## **Excellent Quality Managerment System**

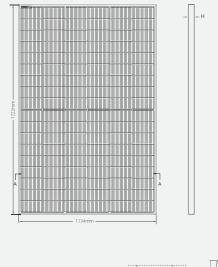
Warranted reliability and stringent quality assurances well beyond certified requirements.

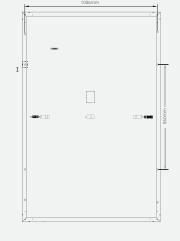
### Anhui Shangxia Solar Energy Co., Ltd, Address:No.1669-4, Huoli Shan North Road, Cihu Gaoxin District, Maanshan City Anhui Province,

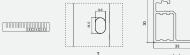
\ddress:No.1669-4, Huoli Shan North Road, Cihu Gaoxin District,Maanshan City Anhui Province, Ma'anshan,Anhui,China Web:www.ahsx-solar.com

## ASM54P 425-445Series N-type Single glass components

## **DIMENSIONS OF PV MODULE(mm)**







\*Remark: customized frame color and cable length available upon request \*Remark: customized frame color and cable length available upon request

### ELECTRICAL CHARACTERISTICS | STC\*

Nominal Power Watt Pmax(W)*	425	430	435	440	445
Power Output Tolerance Pmax(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum Power Voltage Vmp(V)	32.18	32.38	32.59	32.81	33.02
Maximum Power Current Imp(A)	13.21	13.28	13.35	13.41	13.48
Open Circuit Voltage Voc(V)	38.75	38.95	39.16	39.38	39.59
Short Circuit Current Isc(A)	13.66	13.73	13.80	13.86	13.93
Module Efficiency (%)	21.27	21.52	21.77	22.02	22.27

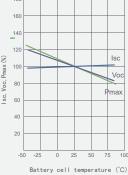
\*The data above is for reference only and the actual data is in accordance with the pratical testing \*STC (Standard Test Condition): Irradiance 1000W/m<sup>2</sup>, Module Temperature 25°C, AM 1.5 \*Measuring tolerance: ±3%

### ELECTRICAL CHARACTERISTICS | NMOT\*

320	323	327	331	335
10.67	10.73	10.78	10.83	10.89
29.99	30.10	30.33	30.56	30.76
36.81	37.00	37.20	37.41	37.61
11.03	11.09	11.14	11.19	11.25
	10.67 29.99 36.81	10.67 10.73   29.99 30.10   36.81 37.00	10.67 10.73 10.78   29.99 30.10 30.33   36.81 37.00 37.20	10.67 10.73 10.78 10.83   29.99 30.10 30.33 30.56   36.81 37.00 37.20 37.41

\*NMOT:Irradiance 800W/m<sup>2</sup>,Ambient Temperature 20°C,AM 1.5,Wind Speed 1m/s

280 8 210 140 10 15 20 25 30 35 40 45 电压(V) Isc, Voc, Pmax Temperature curve 180 160



### **MECHANICAL DATA**

Solar cells	Single glass
Cells orientation	144 (6×24)
Module dimension	1722×1134×30mm(With Frame)
Weight	22 kg
Glass	3.2mm, High Transmission, AR Coated Tempered Glass
Junction box	IP 68, 3 diodes
Cables	4 mm² ,350 mm (With Connectors)
Connectors*	MC4-compatible

\*Please refer to regional datasheet for specified connector

**TEMPERATURE RATINGS** 

### WORKING CONDITIONS

NMOT	45℃ ±2℃	Maximum system voltage	1500 V DC
Temperature coefficient of Pmax	-0.25%/°C	Operating temperature	-40°C~+85°C
Temperature coefficient of Voc	-0.25%/°C	Maximum series fuse	25 A
Temperature coefficient of Isc	+0.045%/°C	Front Side Maximum Static Loading	Up to 5400Pa
Refer.Bifacial Factor	70±5%	Rear Side Maximum Static Loading	Up to 2400Pa

\*Do not connect Fuse in Combiner Box with two or more strings in parallel connection

#### **Battery cell temperature**

Transportation and loading capacity of flatbed trucks (model: high and low board - total length of 17.5 meters, high board length of 3.5-4.5 meters)

Size of each pallet (mm) 1782 x 1140 x 1249 36 pieces/pallet, 36 pallets/vehicle, 1296 pieces/vehicle



490

420

350

功率(W)

Current voltage and power voltage curves(445W)

16

14

12

10

电流(A)