

# ASM78P 605-625 Series

N-type Double glass components

**605-625W**  
POWER RANGE

**22.36%**  
MAXIMUM EFFICIENCY

**0.55%**  
YEARLY DEGRADATION

**12** 12 YEARS PRODUCT WARRANTY

**30** 30 YEARS OUTPUT GUARANTEE



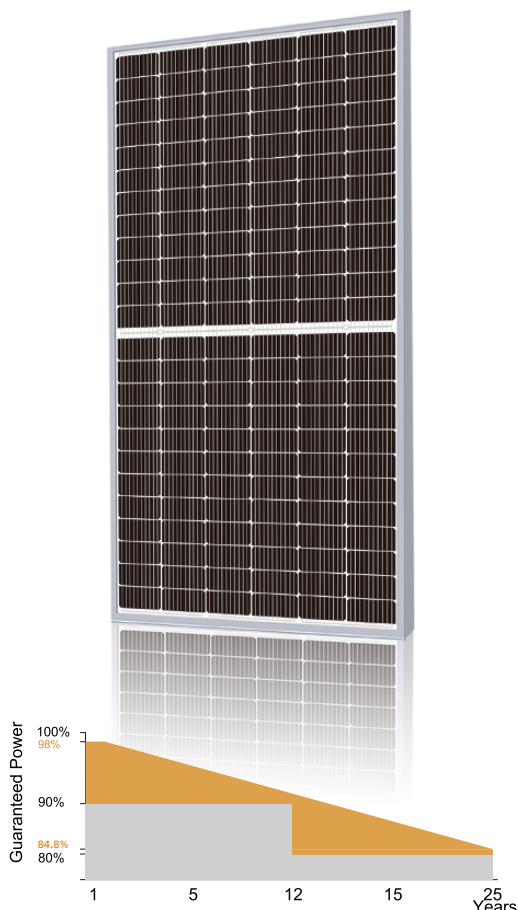
IEC 61215/IEC 61730/IEC 61701/IEC 62716/UL6 1730

ISO 14001: Environmental Management System

ISO 9001: Quality Management System

ISO45001: Occupational Health and Safety Management System

\*As there are different certification requirements in different markets, please contact your local zshine sales representative for the specific certificates applicable to the products in the region in which the products are to be used.



\*Please check the valid version of Limited Product Warranty which is officially released by Anhui Shangxia Solar Energy Co., Ltd.

## KEY FEATURES



### Excellent Cells Efficiency

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



### Better Weak Illumination Response

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



### Anti PID

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



### Adapt To Harsh Outdoor Environment

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



### TIER 1

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



### Excellent Quality Management System

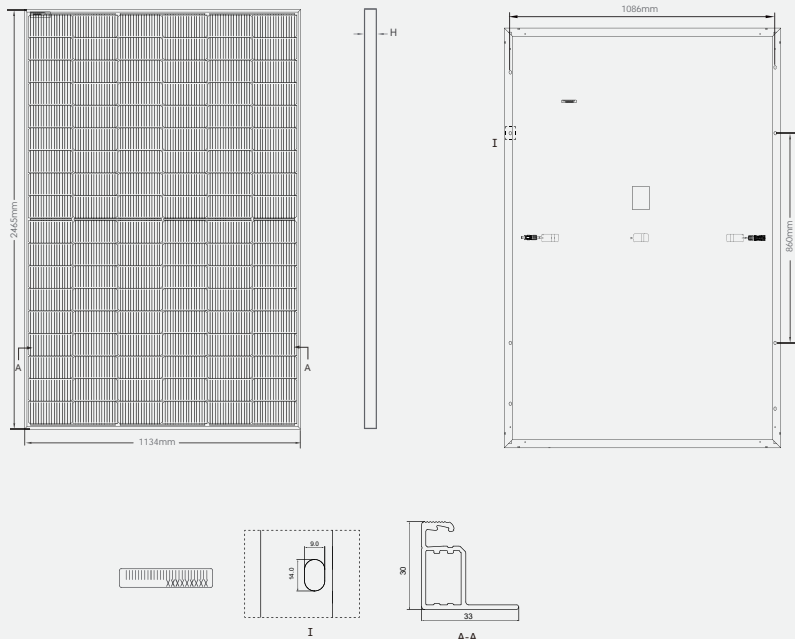
Warranted reliability and stringent quality assurances well beyond certified requirements.



### Bifacial Technology

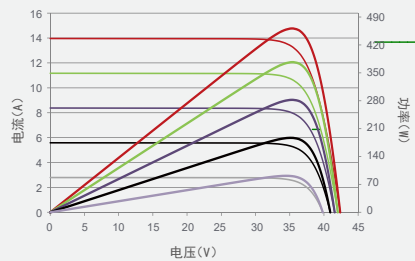
Up to 25% additional power gain from back side depending on albedo.

**DIMENSIONS OF PV MODULE(mm)**

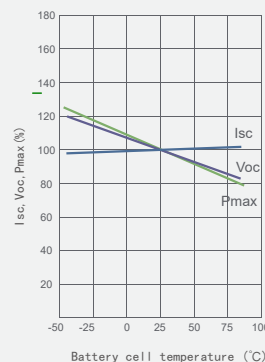


\*Remark: customized frame color and cable length available upon request  
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Current voltage and power voltage curves(625W)



Isc, Voc, Pmax Temperature curve



**ELECTRICAL CHARACTERISTICS | STC\***

|                                |       |       |       |       |       |
|--------------------------------|-------|-------|-------|-------|-------|
| Nominal Power Watt Pmax(W)*    | 605   | 610   | 615   | 620   | 625   |
| Power Output Tolerance Pmax(%) | 0~+3  | 0~+3  | 0~+3  | 0~+3  | 0~+3  |
| Maximum Power Voltage Vmp(V)   | 45.42 | 45.60 | 45.77 | 45.93 | 46.10 |
| Maximum Power Current Imp(A)   | 13.32 | 13.38 | 13.44 | 13.50 | 13.56 |
| Open Circuit Voltage Voc(V)    | 55.17 | 55.31 | 55.44 | 55.58 | 55.72 |
| Short Circuit Current Isc(A)   | 13.95 | 14.03 | 14.11 | 14.19 | 14.27 |
| Module Efficiency (%)          | 21.64 | 21.82 | 22.00 | 22.18 | 22.36 |

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

**MECHANICAL DATA**

|                   |  |
|-------------------|--|
| Solar cells       | Double glass                                 |
| Cells orientation | 144 (6×24)                                   |
| Module dimension  | 2465×1134×30mm(With Frame)                   |
| Weight            | 34.6 kg                                      |
| Glass             | 3.2mm, High Transmission, AR Coated Tempered |
| Junction box      | Glass IP 68, 3 diodes                        |
| Cables            | 4 mm <sup>2</sup> ,350 mm (With Connectors)  |
| Connectors*       | MC4-compatible                               |

\*Please refer to regional datasheet for specified connector

**ELECTRICAL CHARACTERISTICS | NMOT\***

|                               |       |       |       |       |       |
|-------------------------------|-------|-------|-------|-------|-------|
| Maximum Power Pmax(Wp)        | 455   | 459   | 462   | 466   | 470   |
| Maximum Power Voltage Vmpp(V) | 42.23 | 42.35 | 42.46 | 42.57 | 42.68 |
| Maximum Power Current Imp(A)  | 10.77 | 10.83 | 10.89 | 10.95 | 11.00 |
| Open Circuit Voltage Voc(V)   | 52.41 | 52.54 | 52.66 | 52.79 | 52.93 |
| Short Circuit Current Isc(A)  | 11.26 | 11.33 | 11.39 | 11.46 | 11.52 |

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

**TEMPERATURE RATINGS**

|                                 |            |                                   |              |
|---------------------------------|------------|-----------------------------------|--------------|
| NMOT                            | 45°C ±2°C  | Maximum system voltage            | 1500 V DC    |
| Temperature coefficient of Pmax | -0.29%/°C  | Operating temperature             | -40°C~+85°C  |
| Temperature coefficient of Voc  | -0.25%/°C  | Maximum series fuse               | 30 A         |
| Temperature coefficient of Isc  | +0.045%/°C | Front Side Maximum Static Loading | Up to 5400Pa |
| Refer. Bifacial Factor          | 80±5%      | Rear Side Maximum Static Loading  | Up to 2400Pa |

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

**WORKING CONDITIONS**

**Double-sided power generation parameters (back gain)**

|     |                                   |       |       |       |       |       |
|-----|-----------------------------------|-------|-------|-------|-------|-------|
| 5%  | Maximum Power (P <sub>MAX</sub> ) | 635   | 641   | 646   | 651   | 656   |
|     | Component efficiency (%)          | 22.73 | 22.91 | 23.10 | 23.29 | 23.48 |
| 15% | Maximum Power (P <sub>MAX</sub> ) | 696   | 702   | 707   | 713   | 719   |
|     | Component efficiency (%)          | 24.89 | 25.10 | 25.30 | 25.51 | 25.71 |
| 25% | Maximum Power (P <sub>MAX</sub> ) | 756   | 763   | 769   | 775   | 781   |
|     | Component efficiency (%)          | 27.05 | 27.28 | 27.50 | 27.73 | 27.95 |