



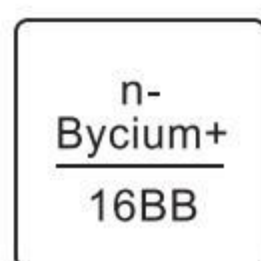
# 182 N-TYPE

## ZHONGXING

### 144 half-cell

580-605W

16BB half-cut n-type Double Glass Bifacial Modules



MBB Half-Cell  
Technology

26%



Cell Conversion  
Efficiency

#### KEY FEATURES



##### 16 BB half-cut cell technology

New circuit design, lower internal current, lower Rs loss  
Ga doped wafer, attenuation < 2% (1st year) / ≤ 0.45% (Linear)



##### Industry leading high yield

Bifacial N-type cell technology,  
5%-25% more yield depends on different conditions



##### Excellent Anti-PID performance

2 times of industry standard Anti-PID test by TUV SUD



##### Wider application

No water-permeability and high wear-resistance,  
can be widely used in high-humid, windy and dusty area



##### IP68 junction box

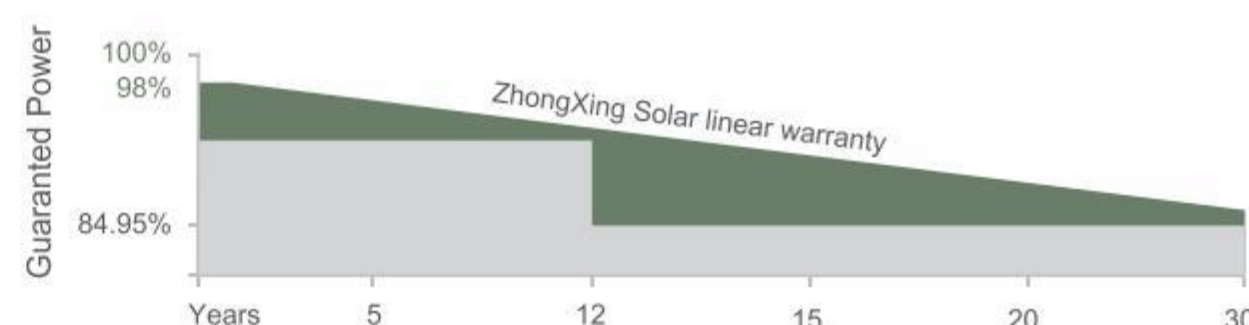
High waterproof level

#### SYSTEM & PRODUCT CERTIFICATES

- IEC 61215 / IEC 61730 / UL 61730
- ISO 9001: 2015
- CE
- TUV



#### PERFORMANCE WARRANTY





# ZHONGXING SOLAR

Dimensions: 2278mm\*1134mm\*30mm  
Power: 580-605W

| Module Type           |                      | ZX580M-72NT | ZX585M-72NT | ZX590M-72NT | ZX595M-72NT | ZX600M-72NT | ZX605M-72NT |
|-----------------------|----------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Test Environment      |                      | STC         | STC         | STC         | STC         | STC         | STC         |
| Maximum Power         | P <sub>max</sub> (W) | 580         | 585         | 590         | 595         | 600         | 605         |
| Maximum Power Voltage | V <sub>mp</sub> (V)  | 43.11       | 43.27       | 43.45       | 43.61       | 43.79       | 43.95       |
| Maximum Power Current | I <sub>mp</sub> (A)  | 13.45       | 13.52       | 13.58       | 13.64       | 13.71       | 13.77       |
| Open Circuit Voltage  | V <sub>oc</sub> (V)  | 51.30       | 51.50       | 51.70       | 51.90       | 52.10       | 52.3        |
| Short Circuit Current | I <sub>sc</sub> (A)  | 14.28       | 14.36       | 14.45       | 14.53       | 14.61       | 14.69       |
| Tolerance             | (W)                  | 0+5         | 0+5         | 0+5         | 0+5         | 0+5         | 0+5         |
| Module Efficiency     | (%)                  | 22.5        | 22.6        | 22.8        | 23.0        | 23.2        | 23.4        |

STC: Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3. Average efficiency reduction of 4.5% at 200W/m<sup>2</sup> according to EN 60904-1  
NOCT: Irradiance at 800 W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s.

|                        |                                                                           |
|------------------------|---------------------------------------------------------------------------|
| Cell Type              | Monocrystalline Silicon 16Busbar                                          |
| No. of Cells           | 144pcs in series (6*24)                                                   |
| Module Dimensions      | 2278mm*1134mm*30mm                                                        |
| Weight                 | 31.8kg (69.96bs.)                                                         |
| Front Glass/Back Glass | 2.0mm AR Coating Tempered Glass                                           |
| Frame                  | Anodized Aluminium Alloy                                                  |
| Junction Box           | IP68, 3 Bypass Diodes                                                     |
| Output Cables          | 4mm <sup>2</sup> (IEC), 12AWG(UL)<br>300mm in Length or Customized Length |
| Connectors             | TO1/LJQ-3-CSY/MC4/MC4-EVO2                                                |

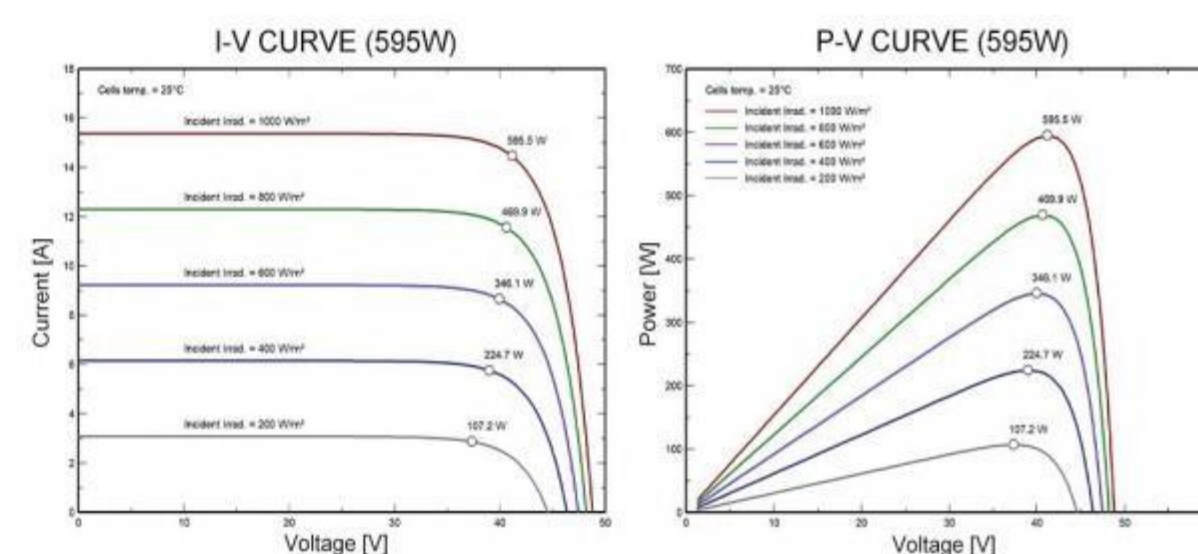
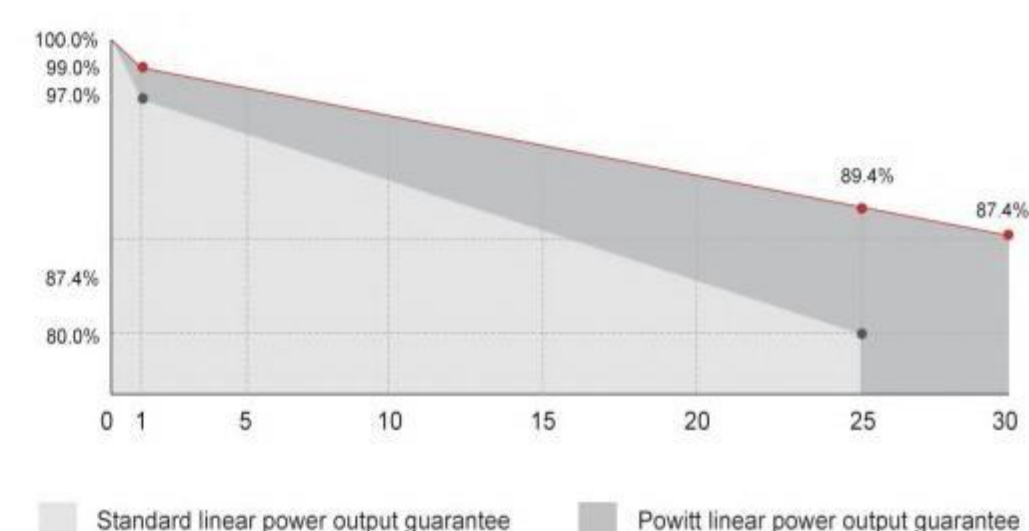
|                              |                 |
|------------------------------|-----------------|
| Maximum System Voltage       | 1500V/DC        |
| Operating Temperature        | -40° C ~ +85° C |
| Maximum Series Fuse          | 30A             |
| Safety Protection Class      | Class II        |
| Mechanical Load (Front side) | 5400Pa          |
| Mechanical Load (Back side)  | 2400Pa          |

|                                             |             |
|---------------------------------------------|-------------|
| Temperature Coefficient of P <sub>max</sub> | -0.35%/° C  |
| Temperature Coefficient of V <sub>oc</sub>  | -0.26%/° C  |
| Temperature Coefficient of I <sub>sc</sub>  | +0.048%/° C |
| Nominal Module Operating Temperature (NMOT) | 43 ± 2° C   |

|                              |     |         |
|------------------------------|-----|---------|
| Pieces Per Pallet            | 37  | 37(USA) |
| Pieces Per Container (40'HQ) | 740 | 740     |

## LINEAR PERFORMANCE WARRANTY

15-Years Product Warranty 30-Years Linear Power Warranty



## DIMENSIONS OF PV MODULE

