

# HT72-18X(ND)-F

Double Glass TOPCon PV Module

**HIGH** High power

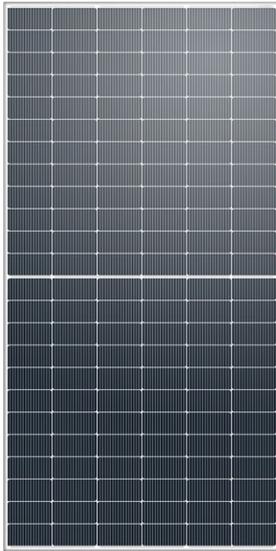
Shanghai Aerospace Automobile  
Electromechanical Co., Ltd.  
Website: [www.ht-saae.com](http://www.ht-saae.com)  
E-mail: [pvmarketing@ht-saae.com](mailto:pvmarketing@ht-saae.com)



Factory:  
Lianyungang Shenzhou New Energy CO., Ltd.

**585W/590W**

**595W/600W/605W**



- Module Efficiency 23.4%
- No. of Cells 144(6×24)
- Weight 32.5(±0.5)kg
- Dimensions 2278×1134×30mm
- Bifaciality 80(±5)%

MULTIWAY+



Half cut cell technology can reduce the internal power loss and improve module overall power. Excellent heat dissipation avoids hot spot production.

## TOPCon

Double glass, The optimized number and width of main gate lines, Maximize the light receiving area of modules and Reduce module power consumption.



Designed for high voltage systems of up to 1500 VDC, increasing the string length of solar systems and saving on BoS costs.

**15Ys**

Products warranty

**30Ys**

Warranty on power output



All the modules are sorted and packaged by amperage, reducing mismatch losses and maximizing system output.

**EL**

Microcrack resistant Double glass structure enhance reliability, double EL tested of high quality control.

**0~+3%**

Positive tolerance 0~+3% guaranteed



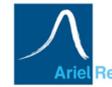
Entire module certified to with stand extreme wind(2400 Pa) and snow loads (5400 Pa)

**Anti PID**

PID resistant

### Comprehensive and first-rate certification system

IEC 61215, IEC 61730 Latest Standard SA 8000, ISO 9001, ISO 14001 and ISO 45001 meeting the highest international standards Strict quality control



\* Copyright@2024V4 Specifications are subject to change without further notification

## 585W/590W/595W/600W/605W

### Electrical Characteristics (STC)

Module Type	HT72-18X(ND)-F				
Maximum Power(Pmax)	585W	590W	595W	600W	605W
Open Circuit Voltage(Voc)	51.5V	51.7V	51.9V	52.1V	52.3V
Short Circuit Current(Isc)	14.47A	14.55A	14.63A	14.71A	14.76A
Maximum Power Voltage(Vmp)	43.3V	43.4V	43.6V	43.8V	44.0V
Maximum Power Current(Imp)	13.53A	13.60A	13.65A	13.71A	13.76A
Module Efficiency	22.6%	22.8%	23.0%	23.2%	23.4%
Power Tolerance	0 ~ +3%				
Maximum System Voltage	1500V DC(IEC)				
Maximum Series Fuse Rating	25A				
Operating Temperature	-40°C to +85°C				

\* STC: AM 1.5, Irradiance 1000W/m<sup>2</sup>, module temperature 25°C

### Electrical Characteristics (NMOT)

Module Type	HT72-18X(ND)-F				
Maximum Power(Pmax)	445W	449W	452W	456W	460W
Open Circuit Voltage(Voc)	49.4V	49.6V	49.8V	50.0V	50.2V
Short Circuit Current(Isc)	11.66A	11.73A	11.79A	11.85A	11.89A
Maximum Power Voltage(Vmp)	41.6V	41.7V	41.9V	42.0V	42.2V
Maximum Power Current(Imp)	10.70A	10.77A	10.79A	10.86A	10.90A

\* NMOT: Irradiance 800W/m<sup>2</sup>, ambient temperature 20°C, wind speed 1m/s

### Bifacial output-rearside power gain

5%	Maximum Power(Pmax)	614W	620W	625W	630W	635W
	Module Efficiency	23.8%	24.0%	24.2%	24.4%	24.6%
15%	Maximum Power(Pmax)	673W	679W	684W	690W	696W
	Module Efficiency	26.0%	26.3%	26.5%	26.7%	26.9%
25%	Maximum Power(Pmax)	731W	738W	744W	750W	756W
	Module Efficiency	28.3%	28.5%	28.8%	29.0%	29.3%

Nominal Module Operating Temperature(NMOT) 43±2°C

Temperature Coefficient of Pmax  $\gamma$  (Pm) -0.29%/°C

Temperature Coefficient of Voc  $\beta$  (Voc) -0.25%/°C

Temperature Coefficient of Isc  $\alpha$  (Isc) 0.046%/°C

Solar Cells Monocrystalline

No. of Cells 144 (6×24)

Dimensions 2278×1134×30mm

Weight 32.5 (±0.5) kg

Glass (Front /Back) High transmission coated tempered glass/Heat strengthened glass

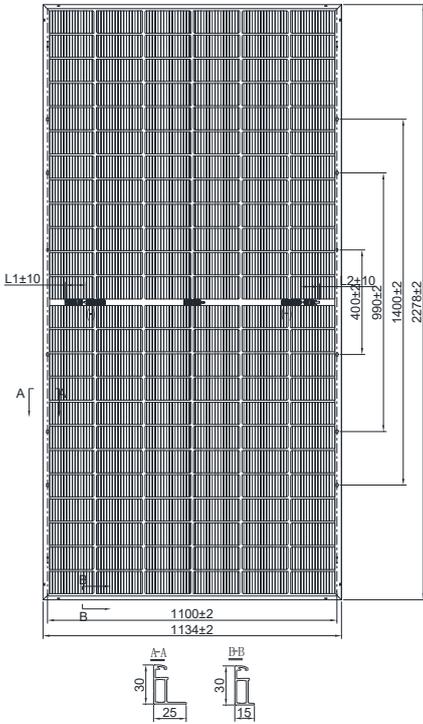
Frame Anodized aluminum alloy

Junction Box IP68

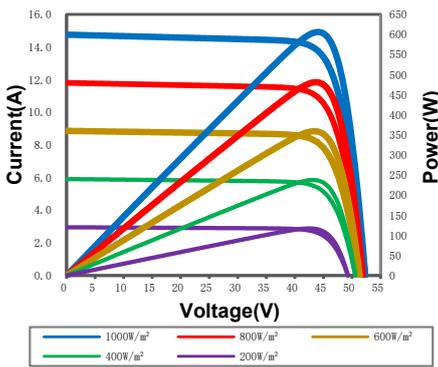
Cable 4mm<sup>2</sup> (IEC) Length: (+) 200mm, (-) 300mm or customized

Connectors MC4 / MC4 Compatible

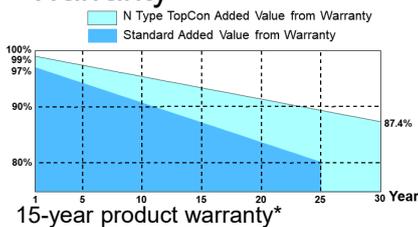
Packaging Configuration 36 pcs/box: 720 pcs/ 40' HQ Container



### IV Curves



### Warranty



30-year warranty on power output\*

\* Specific information is referred to the product quality guarantee

\*The module recycling should be carried out by the professional institutions at the end of module life cycle

\*Copyright@2024V4 Specifications are subject to change without further notification