

# HT72-18X

Shanghai Aerospace Automobile  
Electromechanical Co., Ltd.

NEW

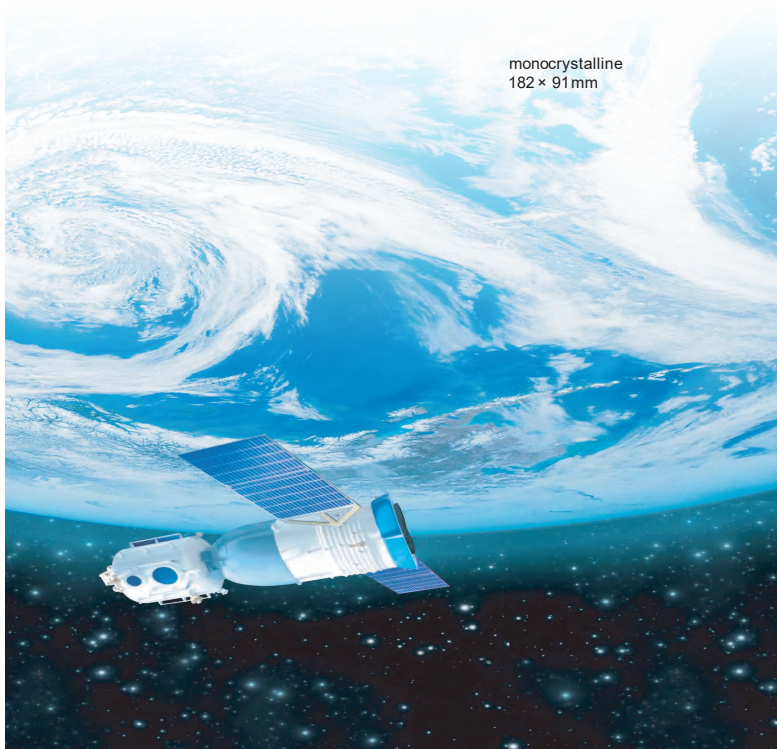
POWER OUTPUT

**540W / 545W**  
**550W / 555W / 560W**



- Module Efficiency: 21.7%
- No. of Cells: 144 (6 × 24)
- Weight: 28.5kg
- Dimensions: 2279mm×1134mm×35mm

monocrystalline  
182 × 91 mm



MULTIWAY

HIGHWAY Half-Cut



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



The optimized number and width of main gate lines, Maximize the light receiving area of components and Reduce component power consumption

12Ys  
Products  
Warranty



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

25Ys  
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, triple EL tested of high quality control.

5W

Positive tolerance  
0/+5w guaranteed



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

PID

PID Resistant

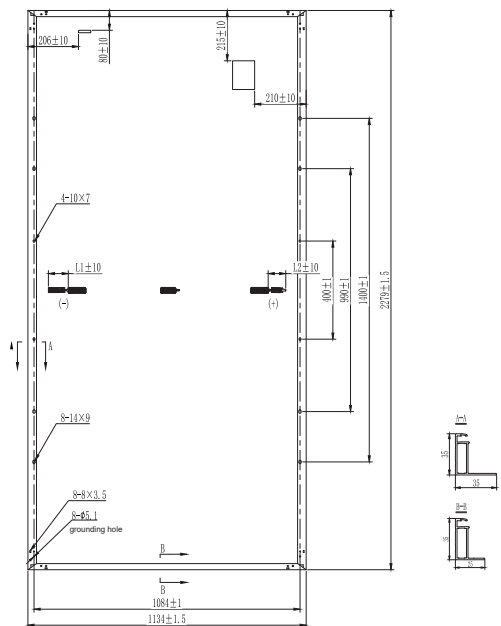
Comprehensive and first-rate certification system

IEC61215: 2016, IEC61730: 2016 Latest Standard  
ISO9001, ISO14001 and OHSAS18001,  
meeting the highest international standards  
Strict quality control



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### Engineering Drawing



### Electrical Characteristics

Module	HT72-18X				
Maximum Power at STC(Pmax)	540W	545W	550W	555W	560W
Open-Circuit Voltage(Voc)	49.5V	49.7V	49.8V	49.9V	50.1V
Short-Circuit Current(Isc)	13.90A	13.95A	14.00A	14.07A	14.14A
Optimum Operating Voltage (Vmp)	41.7V	41.8V	41.9V	42.1V	42.3V
Optimum Operating Current(Imp)	12.97A	13.05A	13.12A	13.20A	13.27A
Module Efficiency	20.9%	21.1%	21.3%	21.5%	21.7%
Power Tolerance	0 ~ +5W				
Maximum System Voltage	1500V DC(IEC)				
Maximum Series Fuse Rating	20A				
Operating Temperature	-40 °C to +85 °C				

\*STC: Irradiance 1000W/m<sup>2</sup>, module temperature 25, AM=1.5  
Optional black frame or white frame module according to customer requirements

### NMOT

Module	HT72-18X				
Maximum Power	402W	405W	409W	413W	417W
Open Circuit Voltage (Voc)	46.9V	47.0V	47.2V	47.3V	47.5V
Short Circuit Current (Isc)	11.22A	11.26A	11.30A	11.36A	11.41A
Maximum Power Voltage (Vmp)	39.5V	39.6V	39.8V	39.9V	40.0V
Maximum Circuit Current (Imp)	10.18A	10.22A	10.29A	10.35A	10.41A
NOCT	45°C±2°C				

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

### Mechanical Characteristics

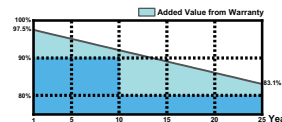
Solar Cells	monocrystalline 182 × 91mm
No. of Cells	144(6 × 24)
Dimensions	2279mm×1134mm×35mm
Weight	28.5kg
Front Glass	High transmission tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68
Cable	4mm <sup>2</sup> (IEC) Length:(+)200mm,(-)300mm
Connectors	MC4 / MC4 Compatible
Packaging Configuration	31pcs / box, 620pcs / 40'HQ Container

### Temperature Characteristics

Temperature Coefficient of Pmax	γ (Pm)	-0.39%/K
Temperature Coefficient of Voc	β (Voc)	-0.29%/K
Temperature Coefficient of Isc	α (Isc)	0.049%/K

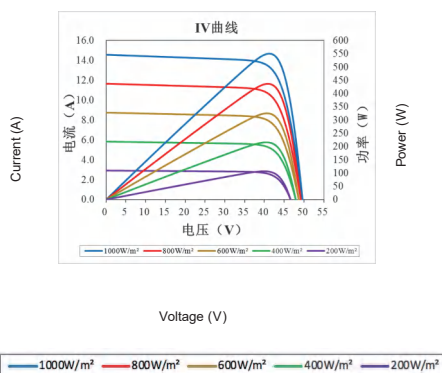
### Warranty

- 12-year product warranty
- 25-year warranty on power output
- Specific information is referred to the product quality guarantee



### I-V Curves

Current-Voltage & Power-Voltage Curve



### Information Box