

HT78-18X Transparent

High Efficiency Low LID Bifacial PERC with Half-cut Technology

Big Size: Cell 182*91 Monocrystalline

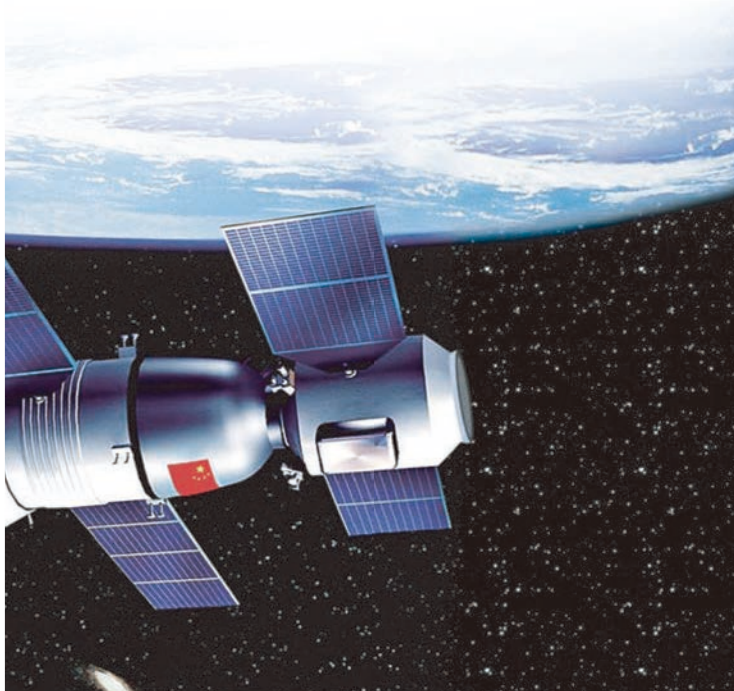
NEW

570W / 575W

580W / 585W / 590W



- Module Efficiency: 21.1%
- No. of Cells: 156(6 × 26)
- Weight: 29.4kg
- Dimensions: 2470mm×1133mm×35mm



MULTIWAY+

Shanghai Aerospace Automobile Electromechanical Co., Ltd. website: www.htsolar.com.tr



Factory : Turkey HT Solar Energy Joint Stock Company Lianyungang ShenZhou New Energy Co., Ltd.



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



10BB The optimized number and width of main gate lines, Maximize the light receiving area of components and Reduce component power consumption

12 Ys

Products Warranty



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

30 Ys

Warranty on power output



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

EL

Microcrack resistant high performance transparent backsheet 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

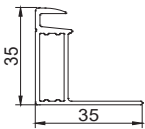
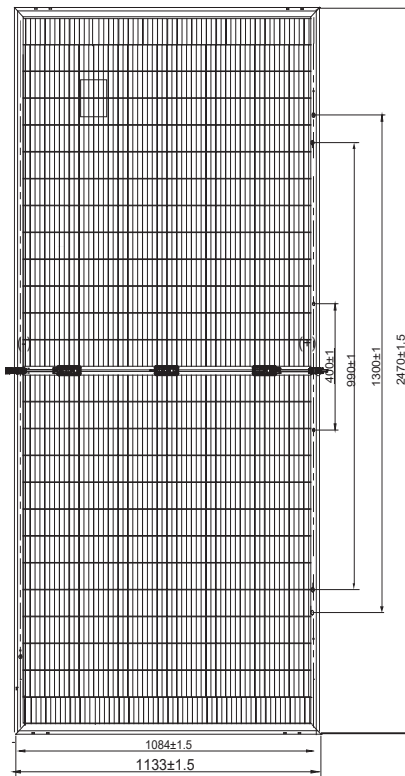
IEC61215: 2016.IEC61730: 2016 Latest Standard

and UL 61730 Latest Standard, ISO9001, ISO14001 and ISO45001, meeting the highest international standards Strict quality control



570W/575W/580W/585W/590W

Engineering Drawing



Electrical Characteristics

Module	HT78-18X				
Maximum Power at STC(Pmax)	570W	575W	580W	585W	590W
Open-Circuit Voltage(Voc)	53.19V	53.34V	53.49V	53.64V	53.79V
Short-Circuit Current(Isc)	13.68A	13.75A	13.82A	13.89A	13.96A
Optimum Operating Voltage (Vmp)	44.68V	44.83V	44.98V	45.13V	45.28V
Optimum Operating Current(Imp)	12.76A	12.83A	12.90A	12.97A	13.04A
Module Efficiency	20.4%	20.5%	20.7%	20.9%	21.1%
Power Tolerance	0 ~ +5W				
Maximum System Voltage	1500V DC(UL/IEC)				
Maximum Series Fuse Rating	25A				
Operating Temperature	-40 °C to + 85°C				

*STC: Irradiance 1000W/m², module temperature 25, AM=1.5
Optional black frame or white frame module according to customer requirements

BIFACIAL REAR SIDE POWER GAIN

Electrical characteristics with different rear side power gain for reference (reference to 590W front)

Module		HT78-18X Bifaciality: 70±5%			
Maximum Power	Pmax Gain	Voc/V	Isc/A	Vmp/V	Imp/A
620W	5%	53.79	14.65	45.28	13.69
649W	10%	53.79	15.36	45.28	14.33
679W	15%	53.79	16.05	45.28	14.99
708W	20%	53.79	16.75	45.28	15.64
738W	25%	53.79	17.45	45.28	16.30

*bifacial gain: the additional gain from the rear side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.

NMOT

Module	HT78-18X				
Maximum Power	426W	430W	434W	438W	442W
Open Circuit Voltage (Voc)	49.0V	49.15V	49.30V	49.45V	49.6V
Short Circuit Current (Isc)	11.10A	11.17A	11.24A	11.31A	11.38A
Maximum Power Voltage (Vmp)	40.6V	40.75V	40.90V	41.05V	41.20V
Maximum Circuit Current (Imp)	10.50A	10.56A	10.61A	10.67	10.73A
NMOT	45°C±2°C				

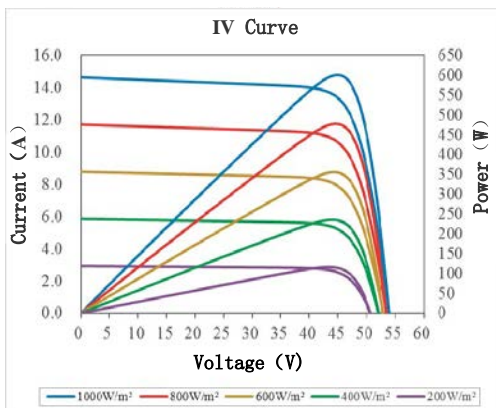
*NMOT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1 m/s

Mechanical Characteristics

Solar Cells	Monocrystalline 182 × 91 mm
No. of Cells	156 (6 × 26)
Dimensions	2470mm×1133mm×35mm
Weight	29.4kg
Front Glass	High transmission tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68
Cable	4mm ² (UL/IEC) Length: (+) 400mm (-) 200mm/length can be customized
Connectors	MC4 / MC4 Compatible
Packaging Configuration	31pcs / box, 496pcs / 40'HQ Container

I-V Curves

Current-Voltage & Power-Voltage Curve



Temperature Characteristics

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

Warranty

- 12-year product warranty
- 30-year warranty on power output

Specific information is referred to the product quality guarantee

