

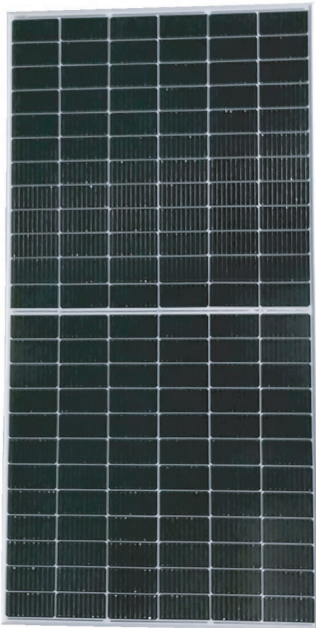
HT72-18X Transparent

High Efficiency Low LID Bifacial PERC with Half-cut Technology

NEW

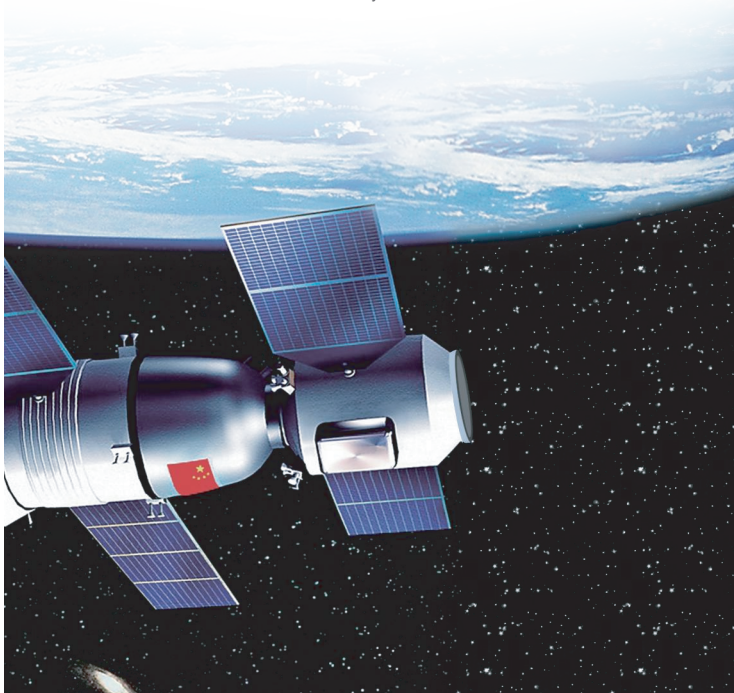
Big Size: Cell 182*91

525W / 530W
535W / 540W / 545W



- Module Efficiency: 21.1%
- No. of Cells: 144 (6 × 24)
- Weight: 28.5kg
- Dimensions: 2285mm×1133mm×35mm

Monocrystalline



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.



9BB The optimized number and width of main gate lines, Maximize the light receiving area of components and Reduce component power consumption

12Ys

Products Warranty



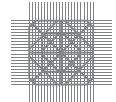
Designed for high voltage systems of up to 1500 VDC, increasing the string length of solar systems and saving on BoS costs

30Ys

Warranty on power output

EL

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



Transparent Backsheet structure which enhance the Module power increases 5-25% generally (per different reflective condition) lower LCOE and higher IRR



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

5W

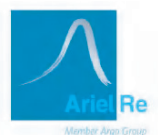
Positive tolerance 0/+5w guaranteed

PID

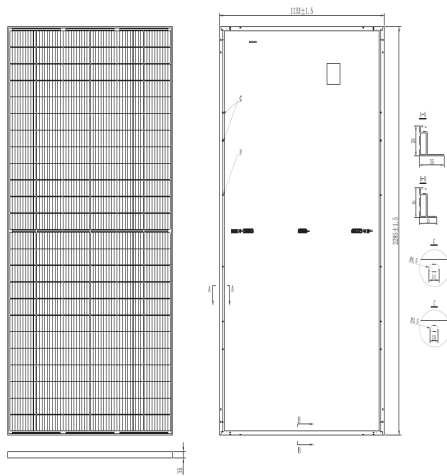
PID Resistant

Comprehensive and first-rate certification system

IEC61215: 2016, IEC61730: 2016 Latest Standard and UL 61730 Latest Standard, ISO9001, ISO14001 and OHSAS18001, meeting the highest international standards
Strict quality control



Engineering Drawing



Electrical Characteristics

Module	HT72-18X				
Maximum Power at STC(Pmax)	525W	530W	535W	540W	545W
Open-Circuit Voltage(Voc)	49.1V	49.2V	49.3V	49.4V	49.5V
Short-Circuit Current(Isc)	14.06A	14.16A	14.26A	14.36A	14.46A
Optimum Operating Voltage (Vmp)	40.7V	40.8V	40.9V	41.0V	41.1V
Optimum Operating Current(Imp)	12.91A	13.00A	13.09A	13.18A	13.27A
Module Efficiency	20.3%	20.5%	20.7%	20.9%	21.1%
Power Tolerance	0 ~ +5W				
Maximum System Voltage	1500V DC(UL/IEC)				
Maximum Series Fuse Rating	20A				
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 REARSIDE POWER GAIN

Electrical characteristics with different rear side power gain (reference to 530W front)

Module		HT72-18X-530			
Maximum Power	Pmax Gain	Voc/V	Isc/A	Vmp/V	Imp/A
557W	5%	49.20	14.87	40.8	13.65
583W	10%	49.20	15.58	40.8	14.30
610W	15%	49.20	16.28	40.8	14.95
636W	20%	49.20	16.99	40.8	15.60
663W	25%	49.20	17.70	40.8	16.25

*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.

NOCT

Module	HT72-18X				
Maximum Power	389W	392W	396W	400W	404W
Open Circuit Voltage (Voc)	46.4V	46.5V	46.6V	46.7V	46.8V
Short Circuit Current (Isc)	11.35A	11.43A	11.51A	11.59A	11.68A
Maximum Power Voltage (Vmp)	38.4V	38.5V	38.6V	38.7V	38.8V
Maximum Circuit Current (Imp)	10.12A	10.19A	10.26A	10.34A	10.41A
NOCT	45°C ± 2°C				

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

Mechanical Characteristics

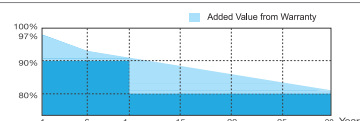
Solar Cells	Monocrystalline 182 × 91 mm
No. of Cells	144 (6 × 24)
Dimensions	2285mm × 1133mm × 35mm
Weight	28.5kg
Front Glass	High transmission tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68
Cable	4mm ² (UL/IEC) Length: 1400mm
Connectors	MC4 / MC4 Compatible
Packaging Configuration	31pcs / box, 620pcs / 40'HQ Container

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



I-V Curves

Current-Voltage & Power-Voltage Curve

