

HT72-166M Transparent

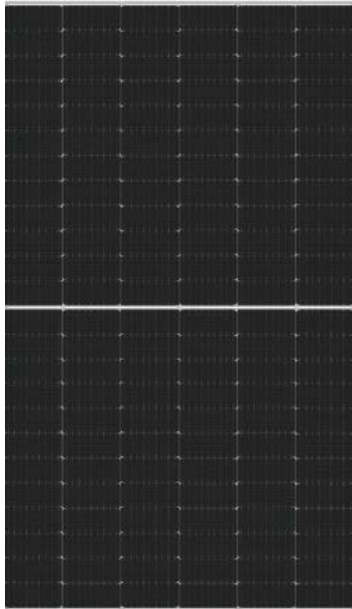
High Efficiency Low LID Bifacial PERC with Half-cut Technology

NEW

Big Size: Cell 166*83 Monocrystalline

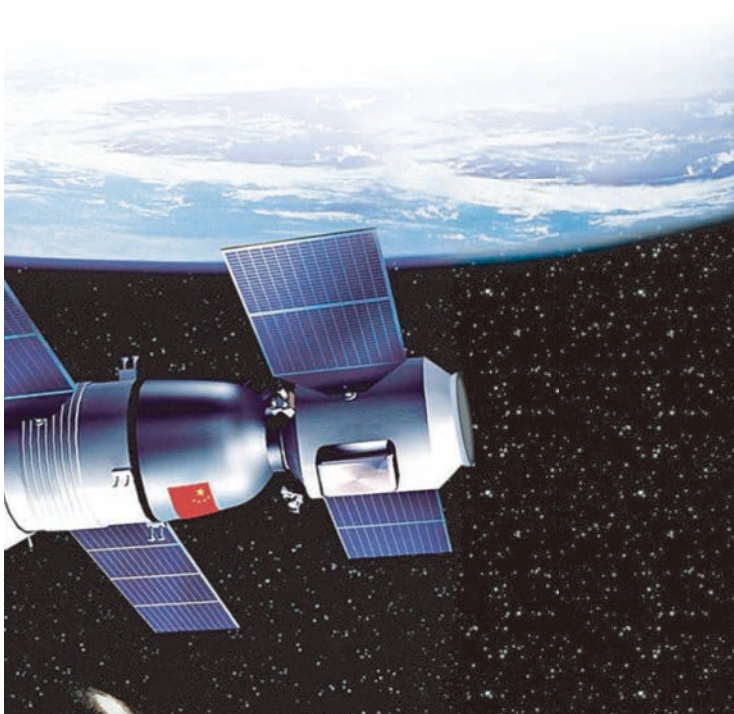
435W / 440W

445W / 450W / 455W



- Module Efficiency: 20.9%
- No. of Cells: 144 (6 × 24)
- Weight: 23.5kg
- Dimensions: 2094mm×1038mm×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.



9BB 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

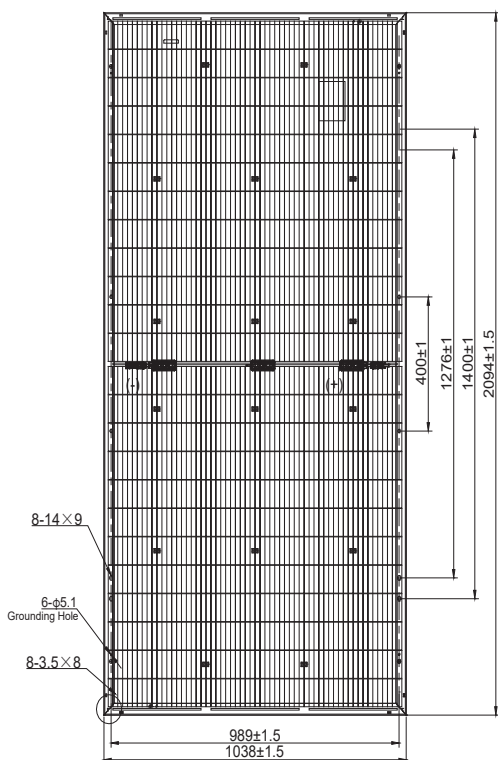
IEC61215: 2016, IEC61730: 2016 Latest Standard

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



435W/440W/445W/450W/455W

Engineering Drawing



Electrical Characteristics

Module	HT72-166M				
Maximum Power at STC(Pmax)	435W	440W	445W	450W	455W
Open-Circuit Voltage(Voc)	49.6V	49.8V	49.9V	50.0V	50.1V
Short-Circuit Current(Isc)	11.53A	11.60A	11.72A	11.83A	11.96A
Optimum Operating Voltage (Vmp)	40.7V	40.9V	41.0V	41.1V	41.4V
Optimum Operating Current(Imp)	10.70A	10.77A	10.86A	10.96A	10.99A
Module Efficiency	20.0%	20.2%	20.5%	20.7%	20.9%
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/m², module temperature 25, AM=1.5
Optional black frame or white frame module according to customer requirements

NMOT

Module	HT72-166M				
Maximum Power	322W	326W	330W	334W	338W
Open Circuit Voltage (Voc)	46.9V	47.1V	47.3V	47.5V	47.7V
Short Circuit Current (Isc)	9.28A	9.35A	9.42A	9.49A	9.56A
Maximum Power Voltage (Vmp)	38.5V	38.7V	38.9V	39.1V	39.3V
Maximum Circuit Current (Imp)	8.36A	8.43A	8.49A	8.56A	8.62A
NMOT	45°C±2°C				

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

BIFACIAL REARSIDE POWER GAIN

Electrical characteristics with different rear side power gain for reference (reference to 455W front)

Module		HT72-166M Bifaciality: 70±5%			
Maximum Power	Pmax Gain	Voc/V	Isc/A	Vmp/V	Imp/A
478W	5%	50.1	12.56	41.4	11.55
501W	10%	50.1	13.15	41.4	12.10
523W	15%	50.1	13.75	41.4	12.63
546W	20%	50.1	14.35	41.4	13.19
569W	25%	50.1	14.95	41.4	13.74

*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 abledo of the ground.

Mechanical Characteristics

Solar Cells	Monocrystalline 166×83mm
No.of Cells	144 (6 × 24)
Dimensions	2094mm×1038mm×35 mm
Weight	23.5 kg
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, 726pcs / 40'HQ Container

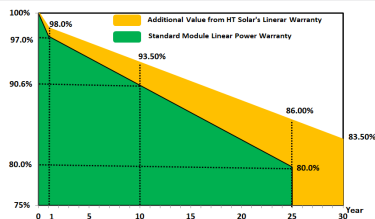
Temperature Characteristics

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

