

# HT72-166M

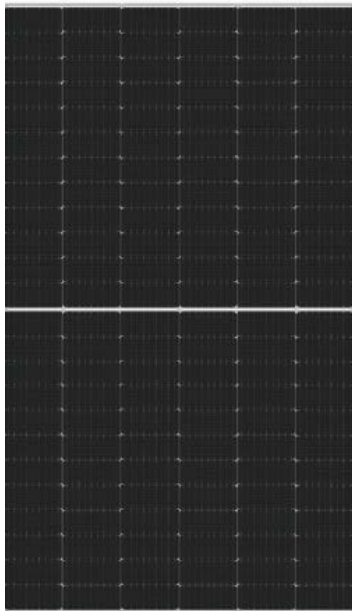
High Efficiency Low LID with Half-cut Technology

NEW

Big Size: Cell 166\*83 Monocrystalline

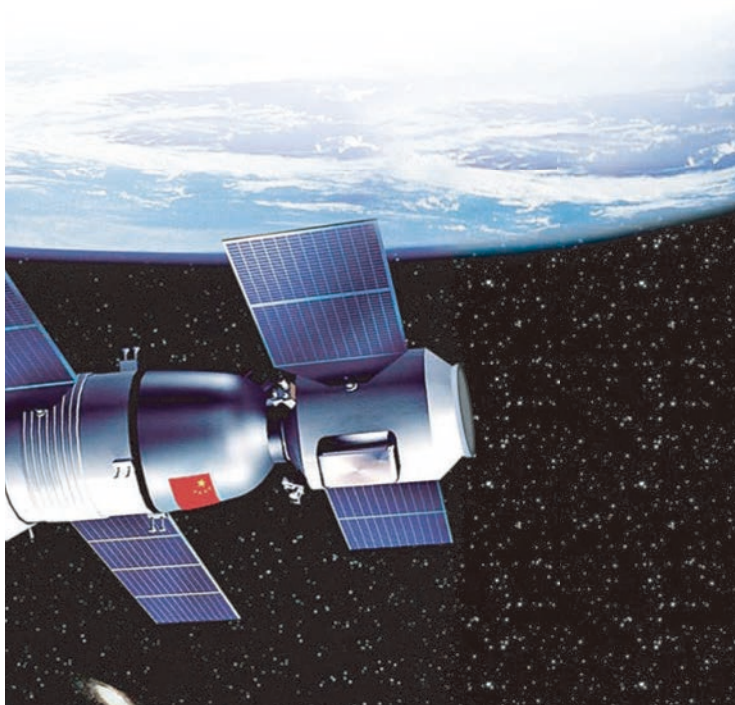
**435W / 440W**

**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](http://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

25 Ys

Warranty on power output



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



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

EL

Microcrack resistant high performance backsheet structure enhance reliability, triple EL tested of high quality control.



Entire module certified to withstand 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

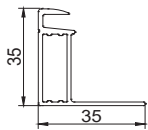
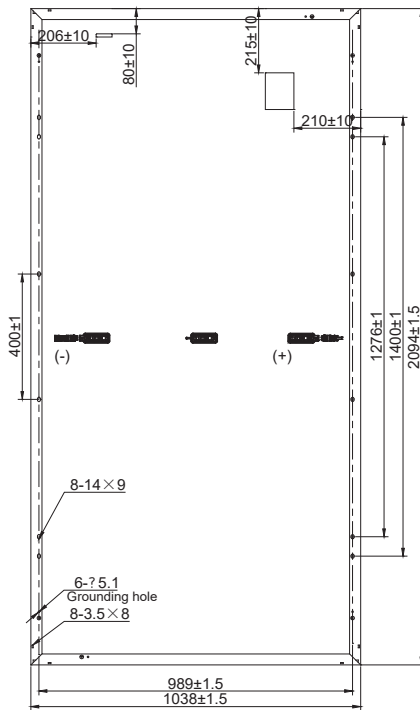
and UL 61730 Latest Standard, ISO9001, ISO14001 and ISO... 1, meeting the highest international standards Strict quality control



IEC 61215  
IEC 61730  
Regular Production  
Surveillance  
[www.tuv.com](http://www.tuv.com)  
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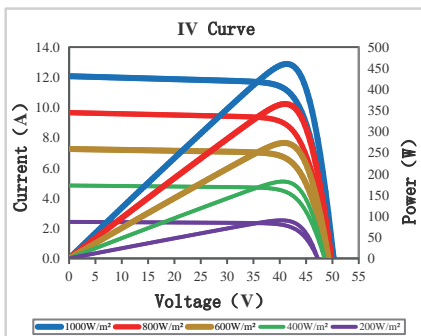
## 435W/440W/445W/450W/455W

### Engineering Drawing



### I-V Curves

Current-Voltage & Power-Voltage Curve



### 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	1000V / 1500V DC(UL/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	HT72-166M				
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/m<sup>2</sup>, ambient temperature 20°C, wind speed 1 m/s

### Mechanical Characteristics

Solar Cells	Monocrystalline 166 × 83 mm
No.of Cells	144 (6 × 24)
Dimensions	2094mm×1038mm×35mm
Weight	23.5 kg
Front Glass	High transmission tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68
Cable	4mm <sup>2</sup> (UL/IEC) Length: (+) 400mm (-) 200mm/length can be customized
Connectors	MC <sub>4</sub> / MC <sub>4</sub> 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

25-year warranty on power output

Specific information is referred to the product quality guarantee

### Information Box

