

# HT72-166M

NEW

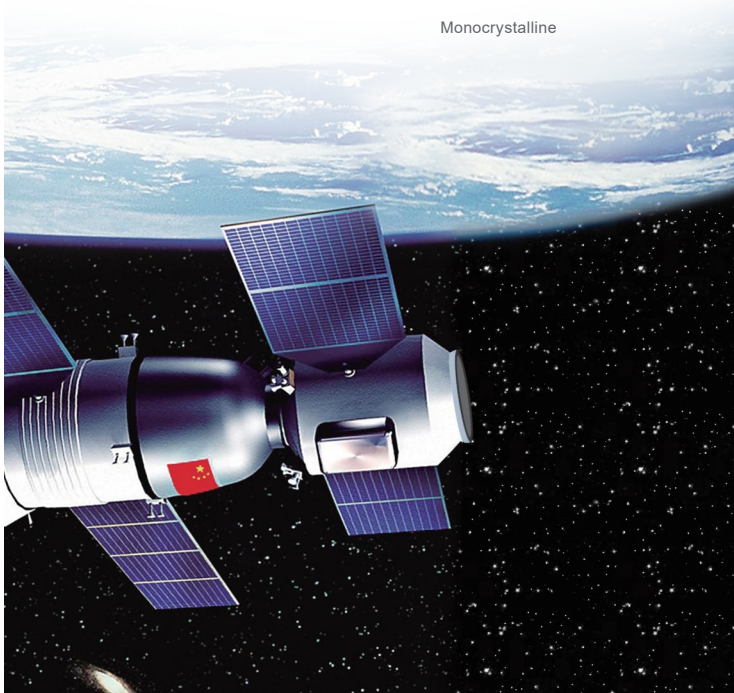
Big Zise: Cell 166\*83

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



- Module Efficiency: 20.4%
- No. of Cells: 144 (6 × 24)
- Weight: 24.5kg
- Dimensions: 2115mm×1052mm×35mm

(Optional)  
Design of Water  
Leakage Trough  
Monocrystalline



MULTIWAY+

Shanghai Aerospace Automobile  
Electromechanical Co., Ltd.  
website: www.ht-saae.com



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



**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**

**10Ys  
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**

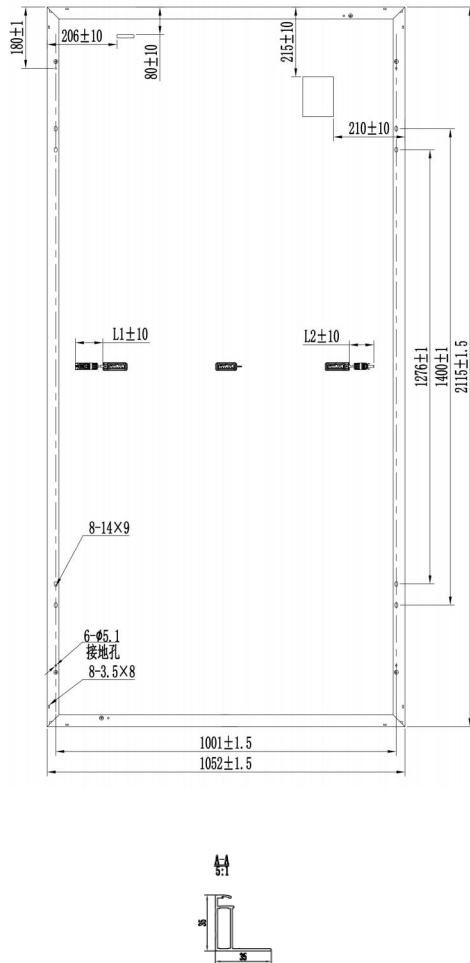
IEC61215: 2016. IEC61730: 2016 Latest Standard  
ISO9001, ISO14001 and OHSAS18001,  
meeting the highest international standards  
Strict quality control



IEC 61215  
IEC 61730  
Regular Production  
Surveillance  
www.tuv.com



### 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  | 41.2V  |
| Optimum Operating Current(Imp)  | 10.70A                | 10.77A | 10.86A | 10.96A | 11.06A |
| Module Efficiency               | 19.6%                 | 19.8%  | 20.0%  | 20.2%  | 20.4%  |
| Power Tolerance                 | 0 ~ +5W               |        |        |        |        |
| Maximum System Voltage          | 1000V / 1500V DC(IEC) |        |        |        |        |
| Maximum Series Fuse Rating      | 15A                   |        |        |        |        |
| 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   | 333W  | 337W  |
| Open Circuit Voltage (Voc)    | 46.9V     | 47.1V | 47.2V  | 47.2V | 47.3V |
| Short Circuit Current (Isc)   | 9.31A     | 9.37A | 9.46A  | 9.55A | 9.66A |
| Maximum Power Voltage (Vmp)   | 38.5V     | 38.6V | 38.17V | 38.8V | 38.9V |
| Maximum Circuit Current (Imp) | 8.36A     | 8.45A | 8.53A  | 8.58A | 8.66A |
| NOCT                          | 45°C ±2°C |       |        |       |       |

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

### Mechanical Characteristics

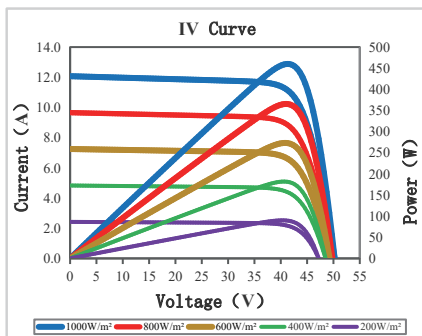
|                         |                                       |
|-------------------------|---------------------------------------|
| Solar Cells             | Monocrystalline 166 × 83 mm           |
| No. of Cells            | 144 (6 × 24)                          |
| Dimensions              | 2115mm×1052mm×35mm                    |
| Weight                  | 24.5 kg                               |
| Front Glass             | High transmission tempered glass      |
| Frame                   | Anodized aluminium alloy              |
| Junction Box            | IP68                                  |
| Cable                   | 4mm <sup>2</sup> (IEC) Length:1100mm  |
| Connectors              | MC4 / MC4 Compatible                  |
| Packaging Configuration | 30pcs / box, 660pcs / 40'HQ Container |

### Temperature Characteristics

|                                 |                |          |
|---------------------------------|----------------|----------|
| Temperature Coefficient of Pmax | $\gamma$ (Pm)  | -0.39%/K |
| Temperature Coefficient of Voc  | $\beta$ (Voc)  | -0.29%/K |
| Temperature Coefficient of Isc  | $\alpha$ (Isc) | 0.049%/K |

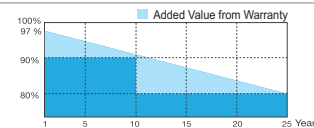
### I-V Curves

Current-Voltage & Power-Voltage Curve



### Warranty

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



### Information Box