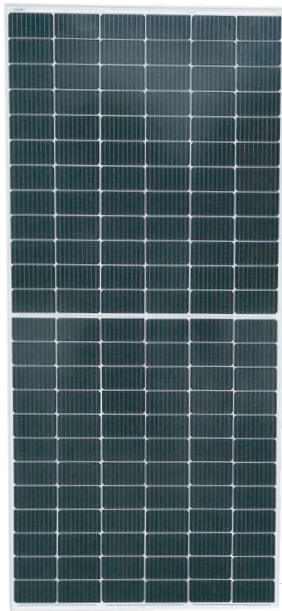


# HT72-166M-xxx (xxx=435-455 in step of 5W)

Big Size: 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

Monocrystalline

Established to develop solar technology for Satellite program



Shanghai Aerospace Automobile Electromechanical Co., Ltd.

Website : [www.ht-saae.com.au](http://www.ht-saae.com.au)

Address: 222 Caoxi Rd, the 8th Floor of Spaceflight

Made in China



**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**

**25Ys  
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**



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

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



**Entire module certified to with stand extreme**

**2400Pa/1.5 Wind  
2400Pa/1.5 Snow**

**PID**

**PID Resistant Optional**

**Comprehensive and first-rate certification system**

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



CEC Listed

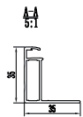
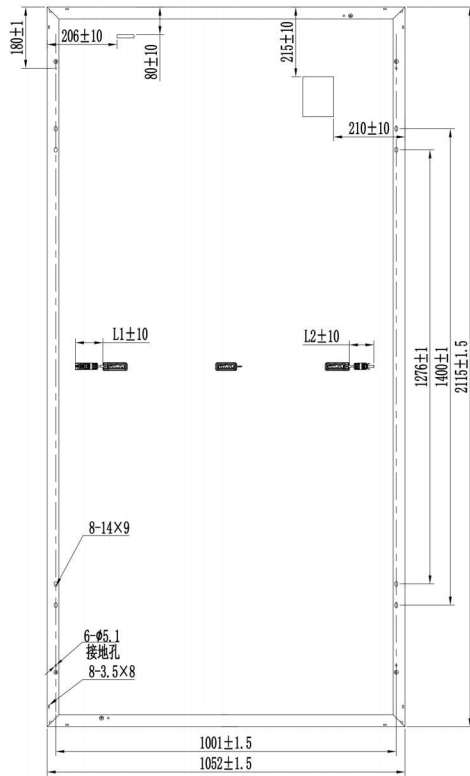


Bloomberg  
TIER 1

MULTIWAY+

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

## Engineering Drawing



## Electrical Characteristics

Module	HT72-166M-xxx(xxx=435-455 in step of 5W)				
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%
Tolerance	Pmax±3% Voc±5% Isc±5%				
Maximum System Voltage	1500V DC(IEC)				
Maximum Series Fuse Rating	20A				
Operating Temperature	-40 °C to +85 °C				
Fire Class	Class C				

## NMOT

Performance at NMOT					
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
NMOT	45°C ±2°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: Irradiance 800W/m<sup>2</sup>, ambient temperature 20 °C, wind speed 1 m/s

## Mechanical Characteristics

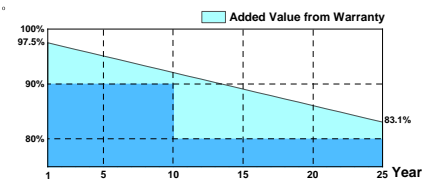
Solar Cells	Monocrystalline 166 × 83 mm
No. of Cells	144 (6 × 24)
Dimensions	2115mm×1052mm×35mm
Weight	24.5 kg
Front Glass	High transmission tempered glass
Frame	Anodized aluminium alloy
R ) 8ā ) Å( eÁ	Øi i Á
Cable	4mm <sup>2</sup> (IEC)
Connectors	PV-CO02 (UKTR)
Packaging Configuration	30pcs / box, 660pcs / 40'HQ Container

## Temperature Characteristics

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

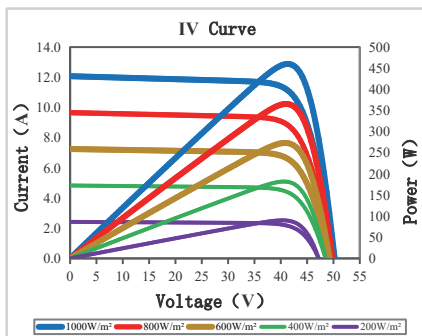
## Warranty

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



## I-V Curves

Current-Voltage & Power-Voltage Curve



## Information Box