

HT72-166M

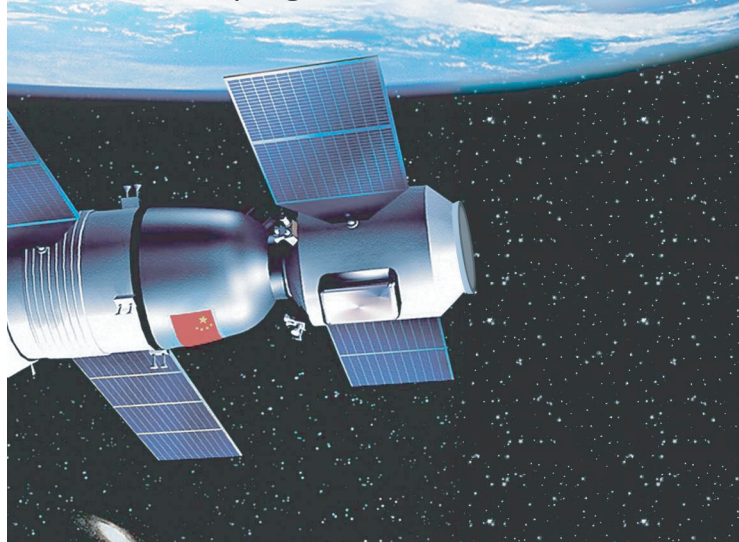
Big Size: Cell 166*83

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



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

Established to develop solar technology
for Satellite program



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

Factory:
Lianyungang 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

15Ys
Products
Warranty

25Ys
Warranty on
power output

EL

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



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



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

5W

Positive tolerance
0/+5w guaranteed

PID

PID Resistant



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

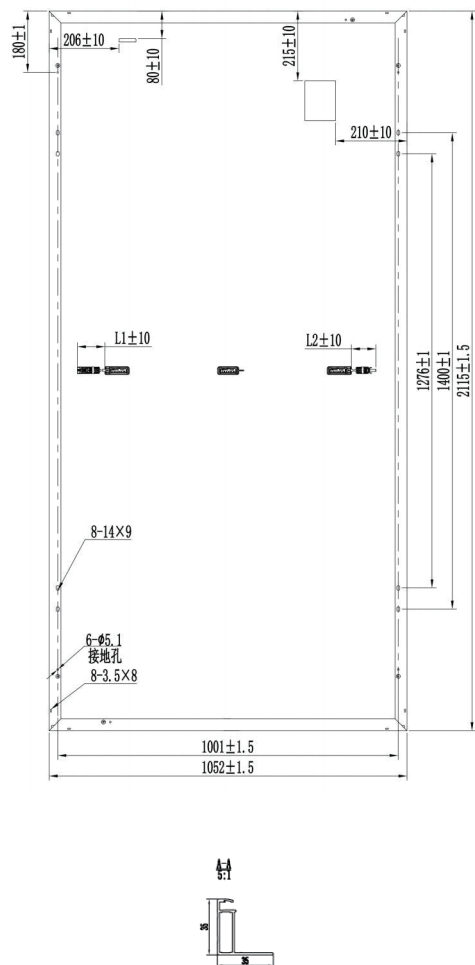
**Comprehensive and first-rate
certification system**

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



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

Engineering Drawing



Electrical Characteristics

Module	HT72-166M				
Maximum Power at STC(P _{max})	435W	440W	445W	450W	455W
Open-Circuit Voltage(V _{oc})	49.6V	49.8V	49.9V	50.0V	50.1V
Short-Circuit Current(I _{sc})	11.53A	11.60A	11.72A	11.83A	11.96A
Optimum Operating Voltage (V _{mp})	40.7V	40.9V	41.0V	41.1V	41.2V
Optimum Operating Current(I _{mp})	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/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	333W	337W
Open Circuit Voltage (V _{oc})	46.9V	47.1V	47.2V	47.2V	47.3V
Short Circuit Current (I _{sc})	9.31A	9.37A	9.46A	9.55A	9.66A
Maximum Power Voltage (V _{mp})	38.5V	38.6V	38.17V	38.8V	38.9V
Maximum Circuit Current (I _{mp})	8.36A	8.45A	8.53A	8.58A	8.66A
NOCT	45°C ±2°C				

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

Mechanical Characteristics

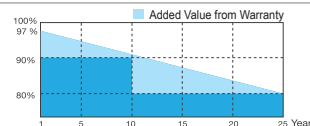
Solar Cells	Monocrystalline 166 × 83 mm
No. of Cells	144 (6 × 24)
Dimensions	2115mm×1052mm×35mm
Weight	24.5 kg
Front Glass	High transmission tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68
Cable	4mm ² (IEC) Length: (+)200mm,(-)300mm
Connectors	MC4 Compatible
Packaging Configuration	31pcs / box, 682pcs / 40'HQ Container

Temperature Characteristics

Temperature Coefficient of P _{max}	γ (P _m)	-0.39%/K
Temperature Coefficient of V _{oc}	β (V _{oc})	-0.29%/K
Temperature Coefficient of I _{sc}	α (I _{sc})	0.049%/K

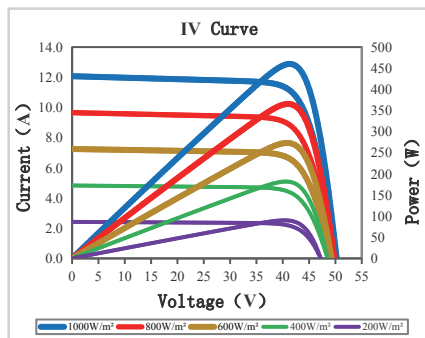
Warranty

12-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