

HT72-166M

NEW

Big Size: Cell 166*83

440W / 445W
450W / 455W / 460W



- Module Efficiency: 21.2%
- No. of Cells: 144 (6 × 24)
- Weight: 23.5kg
- Dimensions: 2094mm×1038mm×35mm



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Factory :
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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

12Ys

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



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

PID

PID Resistant

Comprehensive and first-rate certification system

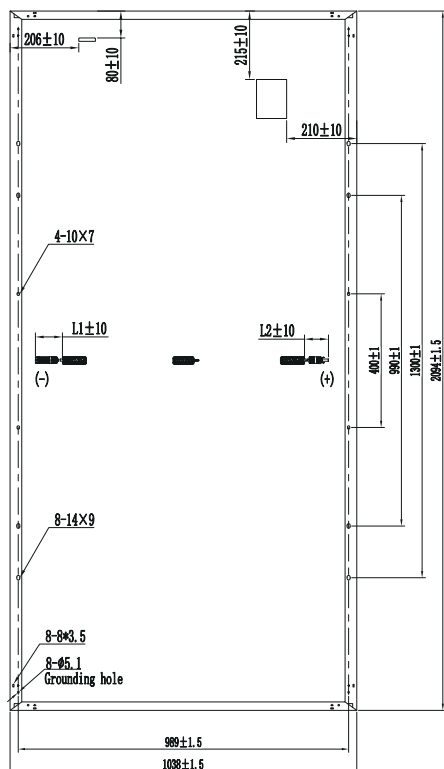
IEC61215: 2016, IEC61730: 2016 Latest Standard
ISO9001, ISO14001 and ISO45001,
meeting the highest international standards
Strict quality control



CEC Listed



Engineering Drawing



Electrical Characteristics

Module	HT72-166M				
Maximum Power at STC(Pmax)	440W	445W	450W	455W	460W
Open-Circuit Voltage(Voc)	49.8V	49.9V	50.0V	50.1V	49.7V
Short-Circuit Current(Isc)	11.60A	11.72A	11.83A	11.96A	11.78A
Optimum Operating Voltage (Vmp)	40.9V	41.0V	41.1V	41.4V	41.9V
Optimum Operating Current(Imp)	10.77A	10.86A	10.96A	10.99A	10.99A
Module Efficiency	20.2%	20.5%	20.7%	20.9%	21.2%
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	326W	330W	333W	337W	342W
Open Circuit Voltage (Voc)	47.1V	47.2V	47.2V	47.3V	47.1V
Short Circuit Current (Isc)	9.37A	9.46A	9.55A	9.66A	9.51A
Maximum Power Voltage (Vmp)	38.6V	38.7V	38.8V	38.9V	39.7V
Maximum Circuit Current (Imp)	8.45A	8.53A	8.58A	8.66A	8.61A
NMOT	45°C±2°C				

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

Mechanical Characteristics

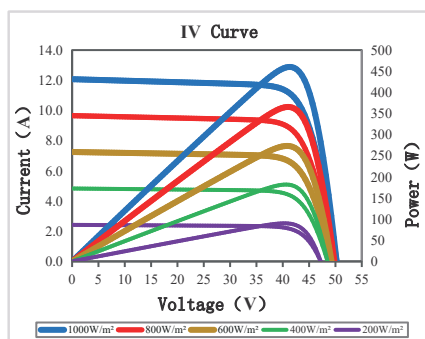
Solar Cells	Monocrystalline 166 × 83 mm
No. of Cells	144 (6 × 24)
Dimensions	2094mm×1038mm×35mm
Weight	23.5kg
Front Glass	High transmission tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68
Cable	4mm ² (IEC) Length: (+)200mm,(-)300mm
Connectors	MC4 Compatible
Packaging Configuration	31pcs / box, 682pcs (726pcs) / 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

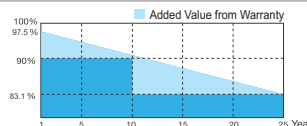
I-V Curves

Current-Voltage & Power-Voltage Curve



Warranty

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



Information Box

DS166-001-A2