

HT72-158 M(ND)-F SHJ N-TYPE MODULE

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

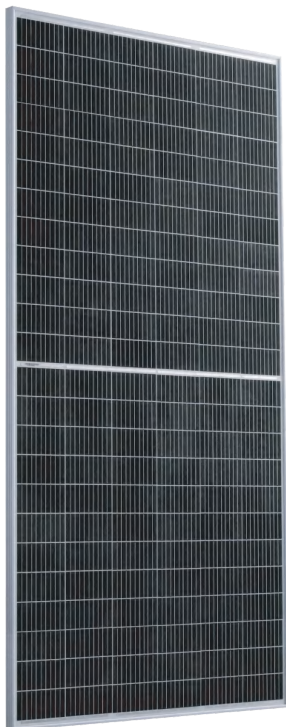


Factory :
Lianyungang ShenZhou New Energy Co., Ltd.
Turkey HT Solar Energy Joint Stock Company

NEW

Big Size: Cell 158.75*79.375

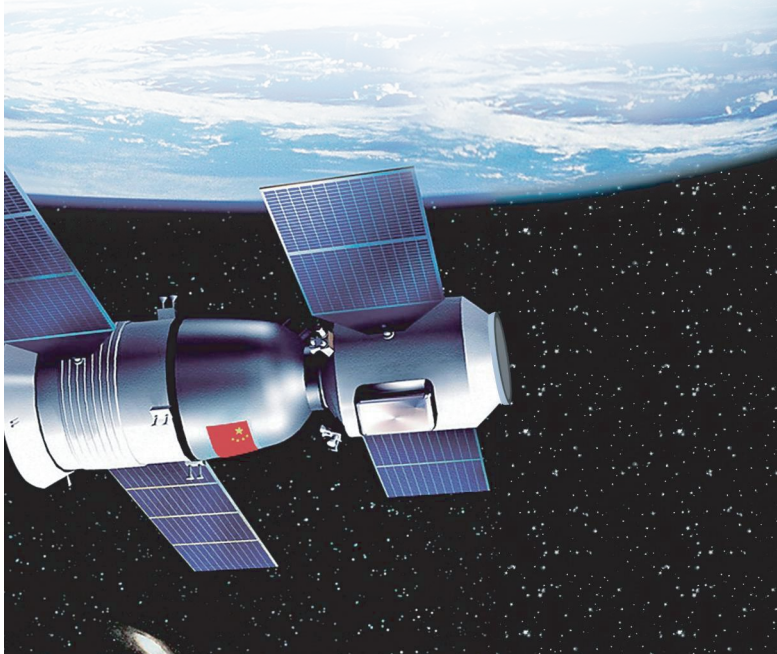
435W/440W : 445W/450W



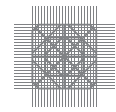
- **Module Efficiency 22.0%**
- **Bifacial additional energy harvesting up to 30%**
- **No. of Cells: 144 (6 × 24)**
- **Weight: 32.0kg**

● (Optional)
Design of Water
Leakage Trough

MULTIWAY+



Half cut cell technology can reduce the internal power loss and improve component overall power. Excellent heat dissipation avoids hot spot production.



Double glass structure which enhance the reliability of anti-microcracks, reduce the snail tracks phenomenon

12Ys
Products
Warranty



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

30Ys
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

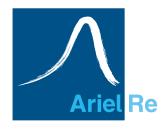
PID Resistant

Comprehensive and first-rate certification system

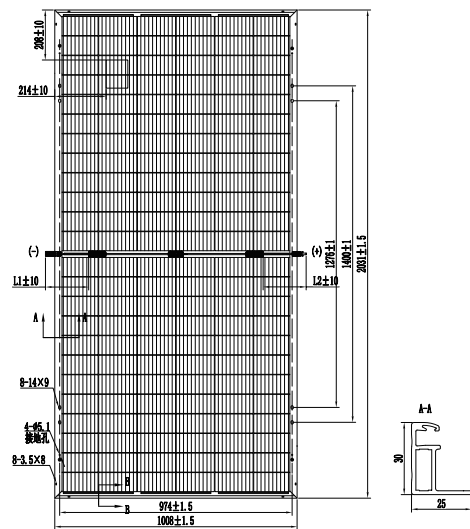
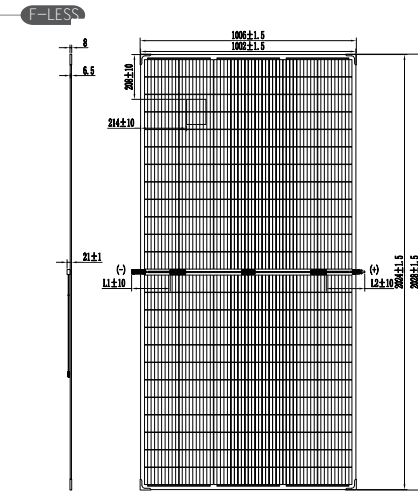
IEC61215: 2016.IEC61730: 2016 Latest Standard
ISO9001, ISO14001 and OHSAS18001,
meeting the highest international standards
Strict quality control



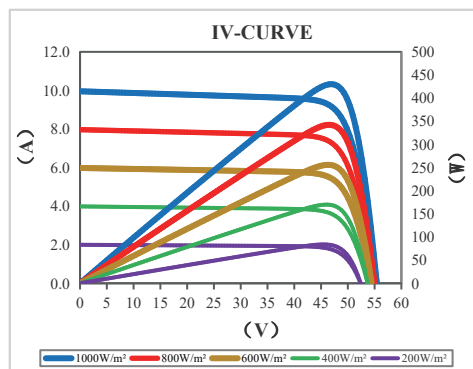
IEC 61215
IEC 61730
Regular Production
Surveillance
www.tuv.com



DRAWING



I-V Curve



STC

Module	HT72-158M(ND)-F			
Maximum Power at STC(Pmax)	435W	440W	445W	450W
Open-Circuit Voltage (Voc)	55.6V	55.8V	55.9V	56.0V
Short-Circuit Current (Isc)	10.03A	10.11A	10.19A	10.27A
Optimum Operating Voltage	46.8V	47.0V	47.2V	47.4V
Optimum Operating Current (Imp)	9.31A	9.37A	9.44A	9.50A
Module Efficiency	21.4%/21.2%	21.7%/21.5%	21.9%/21.7%	22.2%/22.0%
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

NOCT

Module	HT72-158M(ND)-F			
Maximum Power	322W	326W	330W	333W
Open Circuit Voltage (Voc)	53.2V	53.4V	53.5V	53.6V
Short Circuit Current (Isc)	8.09A	8.15A	8.22A	8.28A
Maximum Power Voltage (Vmp)	44.8V	44.9V	45.1V	45.3V
Maximum Circuit Current (Imp)	7.19A	7.26A	7.32A	7.35A
NOCT	45°C±2°C			

*NOCT Irradiance 800W/m² ambient temperature 20 wind speed 1 m/s

REAR Side Gain(435W)

Gain	Pmax	Voc	Isc	Vmp	Imp
5%	458W	55.7V	10.53A	46.9V	9.78A
10%	480W	55.7V	11.03A	46.9V	10.24A
15%	502W	55.7V	11.53A	46.9V	10.71A
20%	523W	55.7V	12.04A	46.9V	11.17A
25%	545W	55.7V	12.54V	46.9V	11.64A
30%	567W	55.7V	13.04A	46.9V	12.10A

*The back gain depends on the installation angle and the ground conditions.

Mechanical Characteristics

Solar Cells	N-type158.75 × 79.375mm
No.of Cells	144 (6 × 24)
Dimensions	2028*1002*6.5mm/2031*1008*30 (Frame)
Weight	29kg/32kg (Frame)
Front Glass	High transmission tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68
Cable	4mm ² (IEC) 200mm(+)/300mm(-)
Connectors	
Packaging Configuration	36pcs / box, 792pcs / 40'HQ Container

Temperature Characteristics

Temperature Coefficient of Pmax	γ (Pm)	-0.24%/K
Temperature Coefficient of Voc	β (Voc)	-0.23%/K
Temperature Coefficient of Isc	α (Isc)	0.043%/K

Information Box