HT-SOLAR

Reliable State - Owned Enterprise Deliver Solar Power Since 1960s

MULTIWAY+

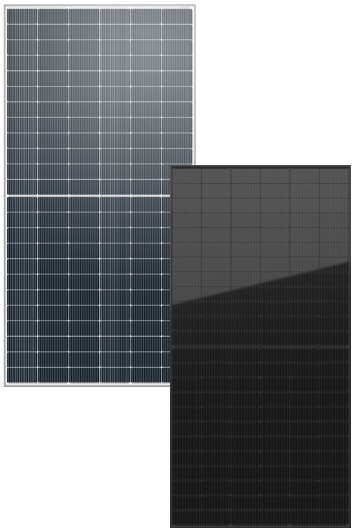
HT72-18X(ND)- F

Double Glass TOPCon PV Module

HIGH High power

Lianyungang Shenzhou New Energy CO., Ltd.
Made in China

HT72-18X(ND)- F-XXX
XXX=Pmax at STC 585W/590W/595W/600W/605W



- Module Efficiency 23.4%
- No. of Cells 144(6×24)
- Weight 32.5(±0.5)kg
- Dimensions 2278×1134×30mm
- Bifaciality 80(±5)%

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

15/30Ys
Product warranty
15Yrs for ground mounted
30Yrs for rooftop

30Ys
Warranty on power output (front side)

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

Design load (positive /negative):3600Pa/1600Pa
Safety factors:1.5

TOPCon
Double glass,The optimized number and width of main gate lines, Maximize the light receiving area of modules and Reduce module power consumption.

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

2%
All the modules are sorted and packaged by amperage, reducing mismatch losses and maximizing system output.

0~+3%
Power Binning range 0~+3%

Anti **PID**
PID resistant

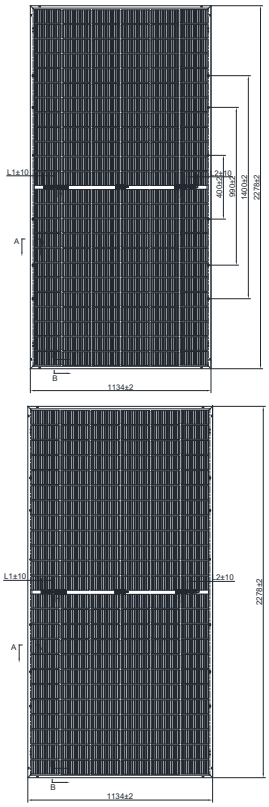
Comprehensive and first-rate certification system
IEC 61215, IEC 61730 Latest Standard
SA 8000,ISO 9001,ISO 14001 and ISO 45001
meeting the highest international standards
Strict quality control

MULTIWAY+

Better Choice For Higher Efficiency!

HT72-18X(ND)- F-XXX

XXX=Pmax at STC 585W/590W/595W/600W/605W



Electrical Characteristics (STC)

Module Type	HT72-18X(ND)-F				
Maximum Power(Pmax)	585W	590W	595W	600W	605W
Open Circuit Voltage(Voc)	52.44V	52.63V	52.82V	53.01V	53.20V
Short Circuit Current(Isc)	14.22A	14.26A	14.30A	14.34A	14.38A
Maximum Power Voltage(Vmp)	43.77V	43.94V	44.11V	44.28V	44.45V
Maximum Power Current(Imp)	13.37A	13.43A	13.49A	13.55A	13.61A
Module Efficiency	22.6%	22.8%	23.0%	23.2%	23.4%
Isc(BSI)	17.63A	17.68A	17.73A	17.78A	17.83A
Power/Voc/Isc Measurement Tolerances	±3%/±5%/±5%				
Maximum System Voltage	1500V DC(IEC)				
Maximum Series Fuse Rating	30A				
Operating Temperature	-40-70°C, Module[T98] max :70°C				

* STC: AM 1.5, Irradiance 1000W/m², temperature 25℃

Electrical Characteristics (NMOT)

Module Type	HT72-18X(ND)-F				
Maximum Power(Pmax)	444W	447W	451W	455W	459W
Open Circuit Voltage(Voc)	50.08V	50.26V	50.44V	50.62V	50.81V
Short Circuit Current(Isc)	11.47A	11.50A	11.53A	11.57A	11.60A
Maximum Power Voltage(Vmp)	41.80V	41.96V	42.13V	42.29V	42.45V
Maximum Power Current(Imp)	10.62A	10.65A	10.70A	10.76A	10.81A

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

Electrical ratings at irradiance level at BNPI

Rated Voc at BNPI [V] / tolerance ±5%	52.42	52.61	52.8	52.99	53.18
Rated Isc at BNPI [A] / tolerance ±5%	15.76	15.8	15.84	15.89	15.93
Rated Vmp at BNPI [V]	43.79	43.96	44.13	44.3	44.47
Rated Imp at BNPI [A]	14.81	14.88	14.95	15.01	15.08
Rated Pmax at BNPI [W] / tolerance ±3%	648.7	615.1	620.9	626.7	670.6

Bifaciality coefficient with tolerance(BNPI)

φPmax	80%±5%
φVoc	98%±5%
φIsc	80%±5%

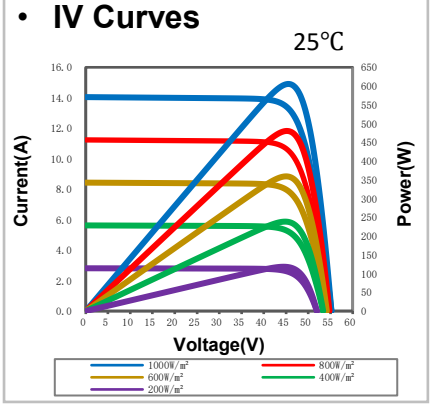
Fire Class Rating

Class C

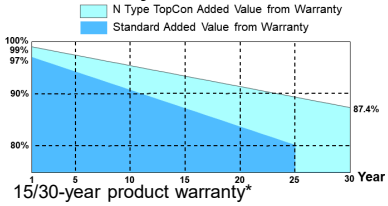
Nominal Module Operating Temperature(NMOT)		43±2℃
Temperature Coefficient of Pmax	γ (Pm)	-0.29%/℃
Temperature Coefficient of Voc	β (Voc)	-0.25%/℃
Temperature Coefficient of Isc	α (Isc)	0.046%/℃

Solar Cells	Monocrystalline
No. of Cells	144 (6×24)
Dimensions	2278×1134×30mm
Weight	32.5 (±0.5) kg
Glass	Heat strengthened glass
Frame	Anodized aluminum alloy/Polymer Composite Material Frame
Junction Box	IP68
Cable	4mm² (IEC) Length: (+) 200mm, (-) 300mm or customized
Connectors	PV-HT005-1(Shanghai Aerospace Automobile Electromechanical Co., Ltd.)
Packaging Configuration	36 pcs/box: 720 pcs/ 40' HQ Container

- **IV Curves**



- **Warranty**



15/30-year product warranty*

30-year warranty on power output*

Only apply to the front-side (STC)

* Specific information is referred to the product quality guarantee

*The module recycling should be carried out by the professional institutions at the end of module life cycle

MULTIWAY+