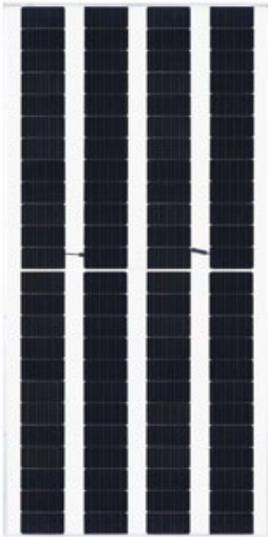


# HT48-18X(ND)-F

Double Glass TOPCon PV Module

**HIGH** High power

**380W/385W**  
**390W/395W/400W**



- Module Efficiency 15.5%
- No. of Cells 96(4×24)
- Weight 32.5(±0.5)kg
- Dimensions 2278×1134×30mm
- Bifaciality 80(±5)%
- Light transmittance 35(±5)%



MULTIWAY+

Shanghai Aerospace Automobile Electromechanical Co., Ltd.  
Website: www.ht-saae.com  
E-mail: pvmarketing@ht-saae.com



Factory:  
Lianyungang Shenzhou New Energy CO., Ltd.



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

## TOPCon

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



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

**15Ys**

Products warranty

**30Ys**

Warranty on power output

**EL**

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



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

**0~+3%**

Positive tolerance 0~+3% guaranteed



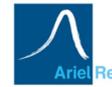
Entire module certified to with stand extreme wind(2400 Pa) and snow loads (5400 Pa)

**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



### Electrical Characteristics (STC)

Module Type	HT48-18X(ND)-F				
Maximum Power(Pmax)	380W	385W	390W	395W	400W
Open Circuit Voltage(Voc)	33.7V	33.8V	33.9V	34.0V	34.1V
Short Circuit Current(Isc)	14.35A	14.49A	14.60A	14.71A	14.82A
Maximum Power Voltage(Vmp)	28.2V	28.3V	28.4V	28.6V	28.7V
Maximum Power Current(Imp)	13.49A	13.63A	13.74A	13.83A	13.94A
Module Efficiency	14.7%	14.9%	15.1%	15.3%	15.5%
Power Tolerance	0 ~ +3%				
Maximum System Voltage	1500V DC(IEC)				
Maximum Series Fuse Rating	25A				
Operating Temperature	-40°C to +85°C				

\* STC: AM 1.5, Irradiance 1000W/m<sup>2</sup>, module temperature 25°C

### Electrical Characteristics (NMOT)

Module Type	HT48-18X(ND)-F				
Maximum Power(Pmax)	289W	293W	297W	300W	304W
Open Circuit Voltage(Voc)	32.4V	32.4V	32.5V	32.6V	32.7V
Short Circuit Current(Isc)	11.56A	11.68A	11.77A	11.85A	11.94A
Maximum Power Voltage(Vmp)	27.1V	27.2V	27.3V	27.5V	27.6V
Maximum Power Current(Imp)	10.66A	10.77A	10.88A	10.91A	11.01A

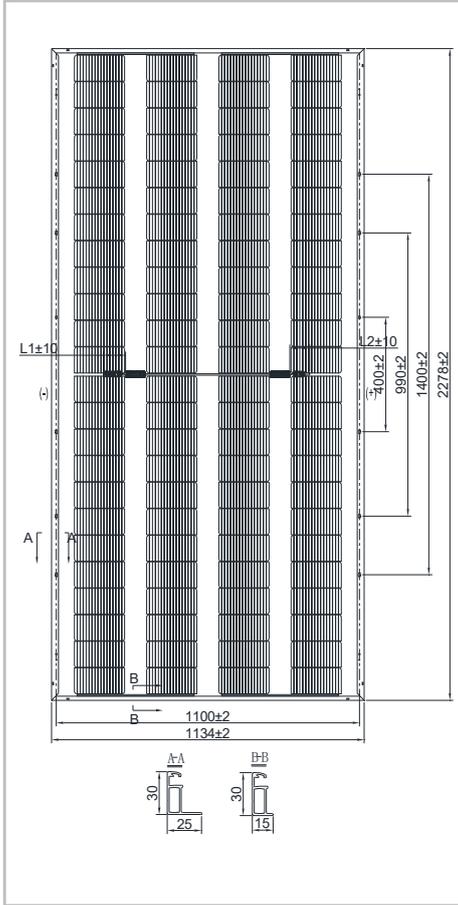
\* NMOT: Irradiance 800W/m<sup>2</sup>, ambient temperature 20°C, wind speed 1m/s

### Bifacial output-rearside power gain

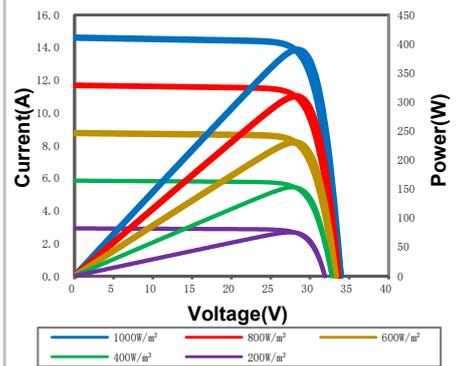
5%	Maximum Power(Pmax)	399W	404W	410W	415W	420W
	Module Efficiency	15.4%	15.6%	15.9%	16.1%	16.3%
15%	Maximum Power(Pmax)	437W	443W	449W	454W	460W
	Module Efficiency	16.9%	17.1%	17.4%	17.6%	17.8%
25%	Maximum Power(Pmax)	475W	481W	488W	494W	500W
	Module Efficiency	18.4%	18.6%	18.9%	19.1%	19.4%

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

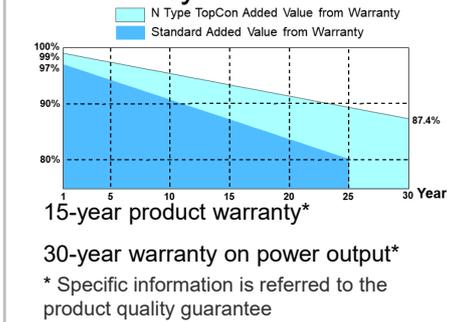
Solar Cells	Monocrystalline				
No. of Cells	96 (4×24)				
Dimensions	2278×1134×30mm				
Weight	32.5 (±0.5) kg				
Glass (Front /Back)	High transmission coated tempered glass/Heat strengthened glass				
Frame	Anodized aluminum alloy				
Junction Box	IP68				
Cable	4mm <sup>2</sup> (IEC) Length: (+) 400mm, (-) 300mm or customized				
Connectors	MC4 / MC4 Compatible				
Packaging Configuration	36 pcs/box: 720 pcs/ 40' HQ Container				



### IV Curves



### Warranty



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

\*Copyright@2024V4 Specifications are subject to change without further notification