

# HT60-18X(ND)-F

Double Glass TOPCon PV Module

**HIGH** High power

## HT60-18X(ND)-F-460W 465W/470W/475W/480W



- Module Efficiency: 22.2%
- No. of Cells 120(6×20)
- Weight 26.5(±0.5)kg
- Dimensions 1909×1134×30mm
- Monocrystalline 182×91mm
- Bifaciality 80(±5)%
- For Australia market



MULTIWAY+

Shanghai Aerospace Automobile Electromechanical Co., Ltd.

Website: [www.ht-saae.com.au](http://www.ht-saae.com.au)

Address: 222 Caoxi Rd, the 8th Floor of Spaceflight

Made in China



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

## 12/30Yrs

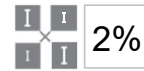
Products warranty  
12Yrs for ground mounted  
30Yrs for rooftop

## 30Yrs

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.



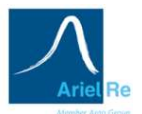
Entire module certified to with stand extreme wind(2400 Pa) and snow loads (5400 Pa)

## Anti PID

PID resistant (Optional)

### Comprehensive and first-rate certification system

IEC 61215:2016. IEC 61730:2016 Latest Standard  
ISO 9001, ISO 14001 and ISO 45001,  
meeting the highest international standards  
Strict quality control



## HT60-18X(ND)-F-460W/465W/470W/475W/480W

### Electrical Characteristics (STC)

Module Type	HT60-18X(ND)-F				
Maximum Power(Pmax)	460W	465W	470W	475W	480W
Open Circuit Voltage(Voc)	42.2V	42.3V	42.4V	42.5V	42.6V
Short Circuit Current(Isc)	13.99A	14.07A	14.15A	14.23A	14.31A
Maximum Power Voltage(Vmp)	34.8V	35.0V	35.2V	35.4V	35.6V
Maximum Power Current(Imp)	13.24A	13.30A	13.37A	13.43A	13.50A
Module Efficiency	21.2%	21.5%	21.7%	21.9%	22.2%
Power Tolerance	±3%W				
Maximum System Voltage	1500V DC(IEC)				
Maximum Series Fuse Rating	25A				
Operating Temperature	-40°C to +85°C				

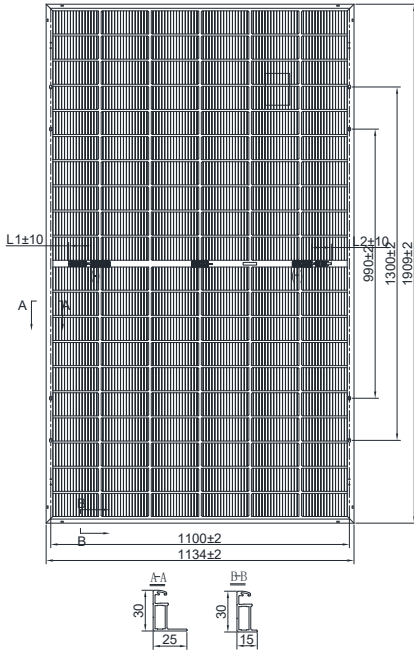
\* STC: AM 1.5, Irradiance 1000W/m<sup>2</sup>, module temperature 25°C

### Electrical Characteristics (NMOT)

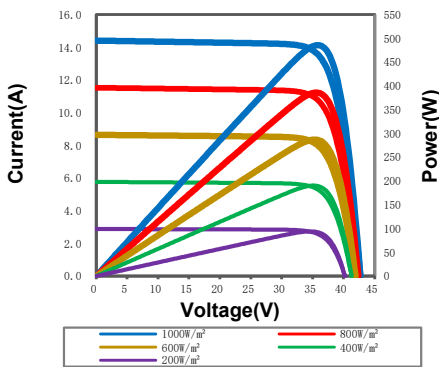
Module Type	HT60-18X(ND)-F				
Maximum Power(Pmax)	350W	354W	357W	361W	365W
Open Circuit Voltage(Voc)	40.5V	40.6V	40.7V	40.8V	40.9V
Short Circuit Current(Isc)	11.27A	11.34A	11.40A	11.47A	11.53A
Maximum Power Voltage(Vmp)	33.4V	33.6V	33.8V	34.0V	34.2V
Maximum Power Current(Imp)	10.48A	10.54A	10.56A	10.62A	10.67A

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

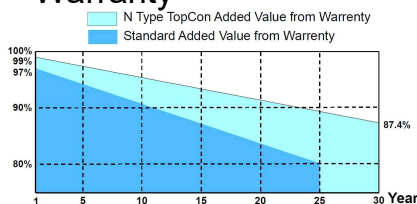
Nominal Module Operating Temperature(NMOT)	43±2°C
Temperature Coefficient of Pmax	γ (Pm) -0.31%/°C
Temperature Coefficient of Voc	β (Voc) -0.25%/°C
Temperature Coefficient of Isc	α (Isc) 0.046%/°C
Solar Cells	Monocrystalline 182× 91mm
No. of Cells	120 (6×20)
Dimensions	1909mm×1134mm×30mm
Weight	26.5 (±0.5) kg
Glass (Front/Back)	High transmission coated tempered glass/Heat strength glass
Frame	Anodized aluminum alloy
Junction Box/Connectors	IP68/PV-HT005-01(HT-SAAE products)
Cable	4mm <sup>2</sup> (IEC) Length: (+) 1200mm, (-) 1200mm
Fire Rating	Class C
Packaging Configuration	36 pcs/box: 864 pcs/ 40' HQ Container



### IV Curves



### Warranty



12/30-year product warranty\*

30-year warranty on power output\*

\* 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

\*Copyright@2023V1 Specifications are subject to change without further notification \*Only available in Australia