

HT60-18X(ND)-F

Double Glass TOPCon PV Module

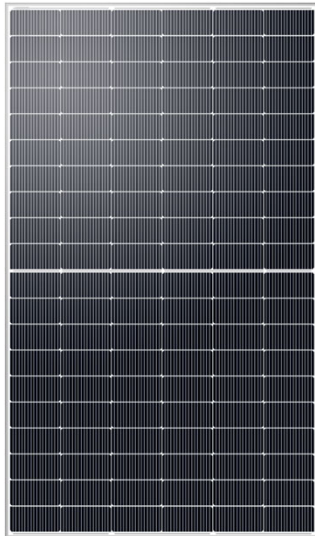
HIGH High power

Shanghai Aerospace Automobile Electromechanical Co., Ltd.
 Website: www.ht-saae.com.au
 Address: 222 Caoxi Rd, the 8th Floor of Spaceflight Building, Shanghai P.R. China

Made in China

HT60-18X(ND)-F

495W/500W/505W/510W/515W



- Module Efficiency: 23.3%
- No. of Cells 120(6×20)
- Weight 27.0(±0.5)kg
- Dimensions 1952×1134×30mm
- Bifaciality 80(±5)%
- For Australia market



MULTIWAY+



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.



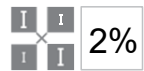
Designed for high voltage systems of up to 1500 VDC, increasing the string length of solar systems and saving on BoS costs.

15/30Ys

Product warranty
 15Yrs for ground mounted
 30Yrs for rooftop

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, double EL tested of high quality control.

0~+3%

Power sorting tolerance
 0~+3% guaranteed



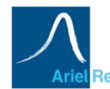
Entire module certified to with stand extreme wind(2400 Pa) and snow loads (5400 Pa)

Anti PID

PID resistant
 (available on request)

Comprehensive and first-rate certification system

IEC 61215:2021, IEC 61730:2023 Latest Standard SA 8000, ISO 9001, ISO 14001 and ISO 45001 meeting the highest international standards Strict quality control



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Electrical Characteristics (STC)

Module Type	HT60-18X(ND)-F				
Maximum Power(Pmax)	495W	500W	505W	510W	515W
Open Circuit Voltage(Voc)	43.1V	43.3V	43.5V	43.7V	43.8V
Short Circuit Current(Isc)	14.55A	14.63A	14.71A	14.79A	14.87A
Maximum Power Voltage(Vmp)	36.2V	36.4V	36.6V	36.8V	37.0V
Maximum Power Current(Imp)	13.69A	13.75A	13.81A	13.87A	13.93A
Module Efficiency	22.4%	22.6%	22.8%	23.0%	23.3%
Power/Voc/Isc Measurement Tolerances	±3%/±5%/±5%				
Maximum System Voltage	1500V DC(IEC)				
Maximum Series Fuse Rating	30A				
Operating Temperature	-40°C to +85°C				

* STC: AM 1.5, Irradiance 1000W/m², module temperature 25°C

Electrical Characteristics (NMOT)

Module Type	HT60-18X(ND)-F				
Maximum Power(Pmax)	376W	380W	384W	388W	392W
Open Circuit Voltage(Voc)	41.4V	41.6V	41.8V	42.0V	42.0V
Short Circuit Current(Isc)	11.73A	11.79A	11.85A	11.92A	11.98A
Maximum Power Voltage(Vmp)	34.8V	34.9V	35.1V	35.3V	35.5V
Maximum Power Current(Imp)	10.80A	10.89A	10.94A	10.99A	11.04A

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

Bifacial NamePlate Irradiance(BNPI)

Maximum Power(Pmax)	546W	552W	558W	563W	569W
Open Circuit Voltage(Voc)	43.1V	43.3V	43.5V	43.7V	43.8V
Short Circuit Current(Isc)	16.01A	16.09A	16.18A	16.27A	16.36A
Maximum Power Voltage(Vmp)	36.2V	36.4V	36.6V	36.8V	37.0V
Maximum Power Current(Imp)	15.08A	15.16A	15.25A	15.30A	15.38A

* BNPI:front 1000W/m²,rear 135W/m²

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

No. of Cells 120 (6×20)

Dimensions 1952×1134×30mm

Weight 27.0 (±0.5) kg

Glass (Front /Back) High transmission coated tempered glass/Heat strengthened glass

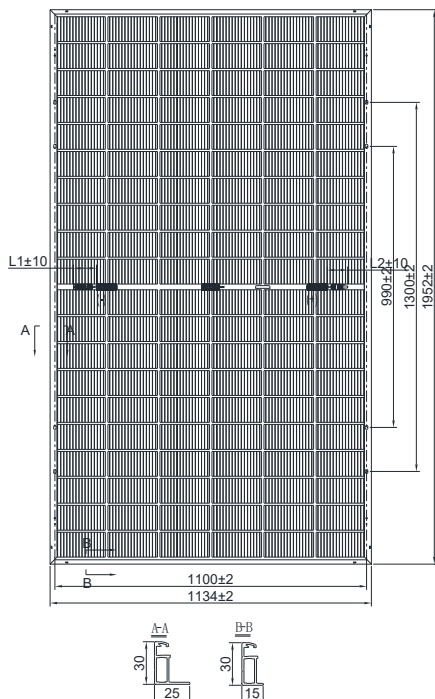
Frame Anodized aluminum alloy

Junction Box/Connectors IP68/PV-HT005-1
Shanghai Aerospace Automobile Electromechanical Co., Ltd.

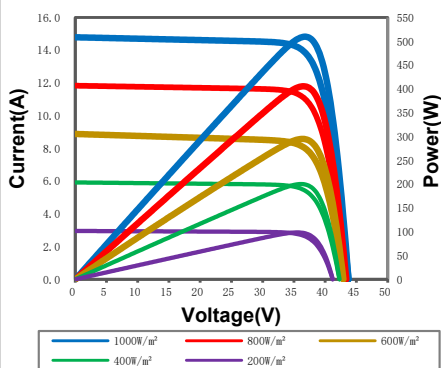
Cable 4mm² (IEC) Length: (+) 200mm, (-) 300mm or customized

Fire Rating Class C

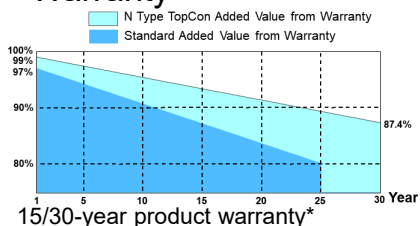
Packaging Configuration 36 pcs/box: 864 pcs/ 40' HQ Container



IV Curves



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

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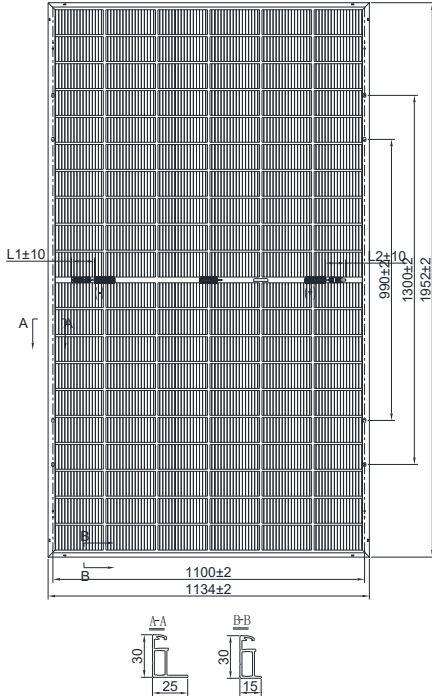
Bifacial output-rearside power gain

5%	Maximum Power(Pmax)	520W	525W	530W	536W	541W
	Module Efficiency	23.5%	23.7%	24.0%	24.2%	24.4%
15%	Maximum Power(Pmax)	569W	575W	581W	587W	592W
	Module Efficiency	25.7%	26.0%	26.2%	26.5%	26.8%
25%	Maximum Power(Pmax)	619W	625W	631W	638W	644W
	Module Efficiency	28.0%	28.2%	28.5%	28.8%	29.1%

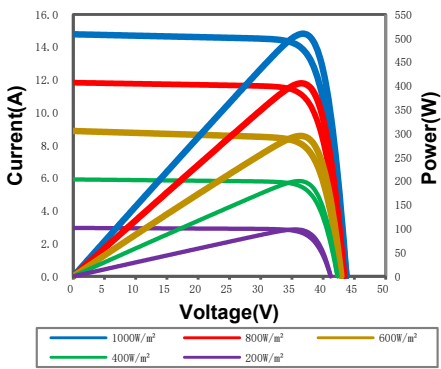
Bifaciality coefficient

φVoc	98 (±5) %
φIsc	80 (±5) %
φPmax	80 (±5) %

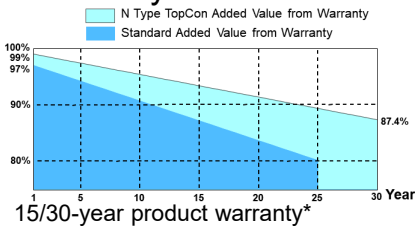
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