

HT66-18X(ND)-F

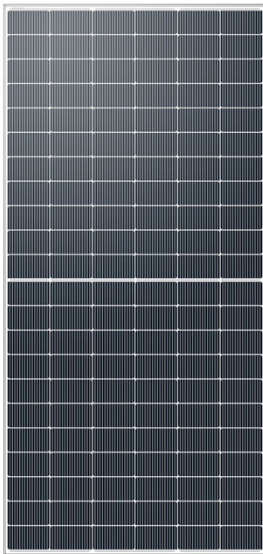
Double Glass TOPCon PV Module

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

HT66-18X(ND)-F 600W/605W/610W/615W/620W



- Module Efficiency: 23.0%
- No. of Cells 132(6×22)
- Weight 33.5(±0.5)kg
- Dimensions 2382×1134×35mm
- 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.



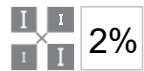
Designed for high voltage systems of up to 1500 VDC, increasing the string length of solar systems and saving on BoS costs.

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



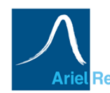
Entire module certified to with stand extreme wind(2400 Pa) and snow loads (5400 Pa)

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



HT66-18X(ND)-F-600W/605W/610W/615W/620W

Electrical Characteristics (STC)

| Module Type | HT66-18X(ND)-F | | | | |
|--------------------------------------|----------------|--------|--------|--------|--------|
| Maximum Power(Pmax) | 600W | 605W | 610W | 615W | 620W |
| Open Circuit Voltage(Voc) | 47.5V | 47.7V | 47.9V | 48.1V | 48.3V |
| Short Circuit Current(Isc) | 15.95A | 16.00A | 16.05A | 16.10A | 16.15A |
| Maximum Power Voltage(Vmp) | 39.4V | 39.6V | 39.8V | 40.0V | 40.2V |
| Maximum Power Current(Imp) | 15.23A | 15.28A | 15.33A | 15.38A | 15.43A |
| Module Efficiency | 22.2% | 22.4% | 22.6% | 22.8% | 23.0% |
| 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 | HT66-18X(ND)-F | | | | |
|----------------------------|----------------|--------|--------|--------|--------|
| Maximum Power(Pmax) | 456W | 460W | 464W | 468W | 471W |
| Open Circuit Voltage(Voc) | 45.6V | 45.8V | 46.0V | 46.2V | 46.4V |
| Short Circuit Current(Isc) | 12.85A | 12.89A | 12.93A | 12.97A | 13.02A |
| Maximum Power Voltage(Vmp) | 37.8V | 38.0V | 38.2V | 38.4V | 38.6V |
| Maximum Power Current(Imp) | 12.06A | 12.11A | 12.15A | 12.19A | 12.20A |

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

Bifacial NamePlate Irradiance(BNPI)

| | | | | | |
|----------------------------|--------|--------|--------|--------|--------|
| Maximum Power(Pmax) | 660W | 666W | 669W | 675W | 681W |
| Open Circuit Voltage(Voc) | 47.5V | 47.7V | 47.9V | 48.1V | 48.3V |
| Short Circuit Current(Isc) | 17.55A | 17.6A | 17.66A | 17.71A | 17.77A |
| Maximum Power Voltage(Vmp) | 39.4V | 39.6V | 39.8V | 40.0V | 40.2V |
| Maximum Power Current(Imp) | 16.75A | 16.82A | 16.81A | 16.88A | 16.94A |

* 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 132 (6×22)

Dimensions 2382×1134×35mm

Weight 33.5 (±0.5) kg

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

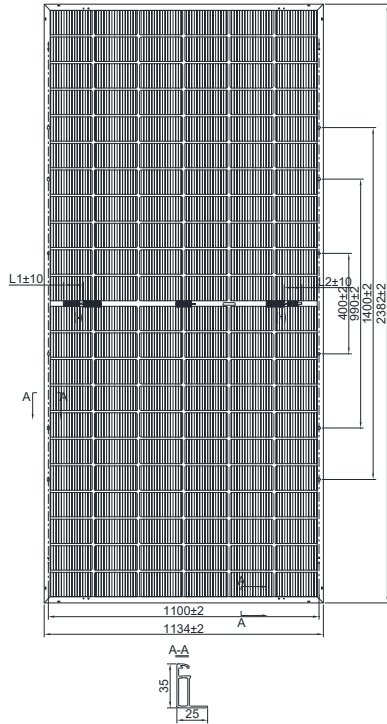
Frame Anodized aluminum alloy

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

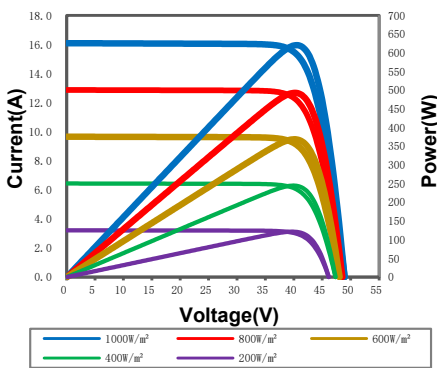
Cable 4mm² (IEC) Length: (+) 200mm, (-) 300mm or customized

Fire Rating Class C

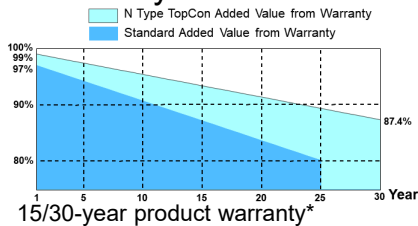
Packaging Configuration 31 pcs/box: 620 pcs/ 40' HQ Container



IV Curves



Warranty



15/30-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

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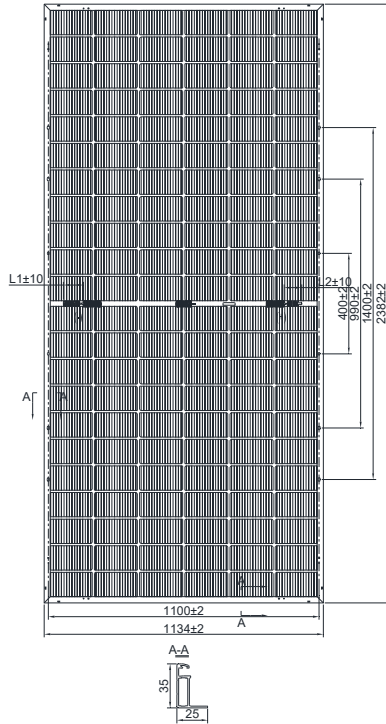
Bifacial output-rearside power gain

| | | | | | | |
|-----|---------------------|-------|-------|-------|-------|-------|
| 5% | Maximum Power(Pmax) | 630W | 635W | 641W | 646W | 651W |
| | Module Efficiency | 23.3% | 23.5% | 23.7% | 23.9% | 24.1% |
| 15% | Maximum Power(Pmax) | 690W | 696W | 702W | 707W | 713W |
| | Module Efficiency | 25.5% | 25.8% | 26.0% | 26.2% | 26.4% |
| 25% | Maximum Power(Pmax) | 750W | 756W | 763W | 769W | 775W |
| | Module Efficiency | 27.8% | 28.0% | 28.2% | 28.5% | 28.7% |

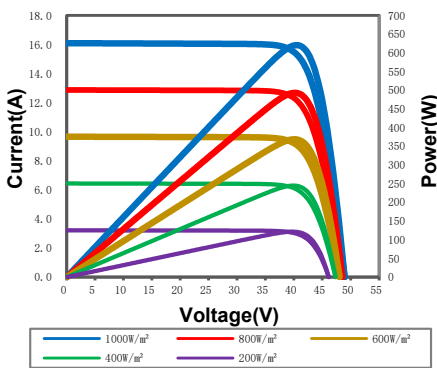
Bifaciality coefficient

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

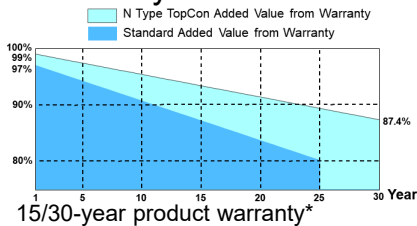
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