

# HT60-18X(N)

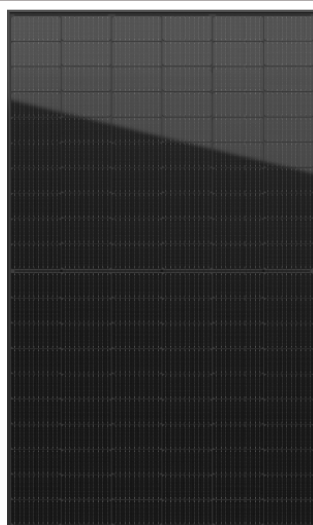
Single Glass TOPCon PV Module

**HIGH** High power

HT60-18X(N)

465W/470W/475W/480W/485W

Panda



- Module Efficiency Up To 22.4%
- No. of Cells: 120 (6×20)
- Weight: 23.0 (±0.5)kg
- Dimensions: 1909×1134×30mm
- Cell Dimension: 182×91mm
- All Black Front with White Rear
- For Australian market



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 reducing internal power loss and improving module overall power; offer excellent heat dissipation helping to avoid hot spot production.

## 30Yrs

Product warranty for All Rooftop Installations; 12Yrs for Ground Mounted

## 30Yrs

Warranty on power output

## EL Tested

Microcrack resistant for enhance reliability, double EL tested of high level of quality control.



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

## TOPCon

The optimised number and width of main gate lines, maximising light receiving area and reducing 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



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

## Anti-PID

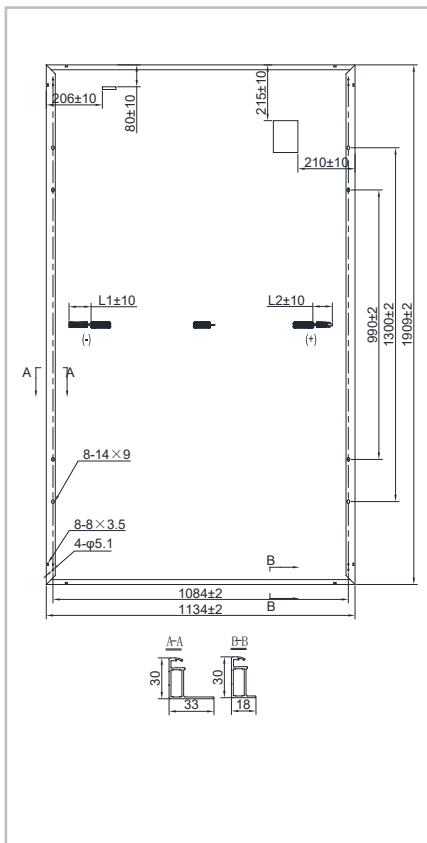
PID resistant (optional)

## Low Degradation Rate \*\*

**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





## Electrical Characteristics (STC)

| Module Type                | HT60-18X(N)    |        |        |        |        |
|----------------------------|----------------|--------|--------|--------|--------|
| Maximum Power(Pmax)        | 465W           | 470W   | 475W   | 480W   | 485W   |
| Open Circuit Voltage(Voc)  | 42.3V          | 42.4V  | 42.5V  | 42.6V  | 42.7V  |
| Short Circuit Current(Isc) | 14.07A         | 14.15A | 14.23A | 14.31A | 14.39A |
| Maximum Power Voltage(Vmp) | 35.0V          | 35.2V  | 35.4V  | 35.6V  | 35.8V  |
| Maximum Power Current(Imp) | 13.30A         | 13.37A | 13.43A | 13.50A | 13.56A |
| Module Efficiency          | 21.5%          | 21.7%  | 21.9%  | 22.2%  | 22.4%  |
| Power Tolerance            | 0 ~ +5W        |        |        |        |        |
| 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)

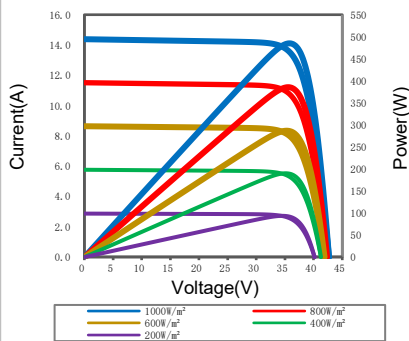
| Module Type                | HT60-18X(N) |        |        |        |        |
|----------------------------|-------------|--------|--------|--------|--------|
| Maximum Power(Pmax)        | 354W        | 357W   | 361W   | 365W   | 369W   |
| Open Circuit Voltage(Voc)  | 40.6V       | 40.7V  | 40.8V  | 40.9V  | 41.0V  |
| Short Circuit Current(Isc) | 11.34A      | 11.40A | 11.47A | 11.53A | 11.60A |
| Maximum Power Voltage(Vmp) | 33.6V       | 33.8V  | 34.0V  | 34.2V  | 34.4V  |
| Maximum Power Current(Imp) | 10.54A      | 10.56A | 10.62A | 10.67A | 10.73A |

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

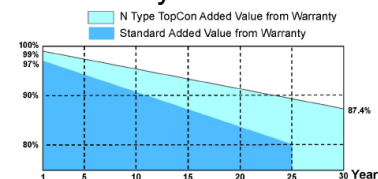
|                                            |         |           |
|--------------------------------------------|---------|-----------|
| Nominal Module Operating Temperature(NMOT) | 43±2°C  |           |
| Temperature Coefficient of Pmax            | γ (Pm)  | -0.31%/°C |
| Temperature Coefficient 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                  | 23.0 (±0.5) kg                                        |
| Glass                   | High light transmittance coated tempered glass        |
| Frame                   | Anodised aluminum alloy                               |
| Junction Box/Connectors | IP68/PV-HT005-001 (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\*

\*\*Less than 0.4% annual degradation rate over 30-year power output warranty\*

\* 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