MULTIWAY+

HT-SAAE

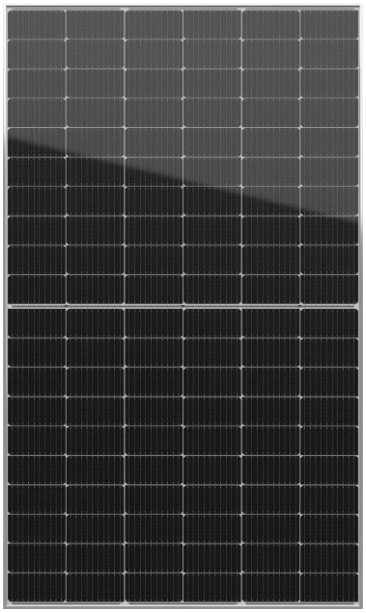
Reliable State - owned Enterprise Deliver Solar Power since 1960s

HT60-18X

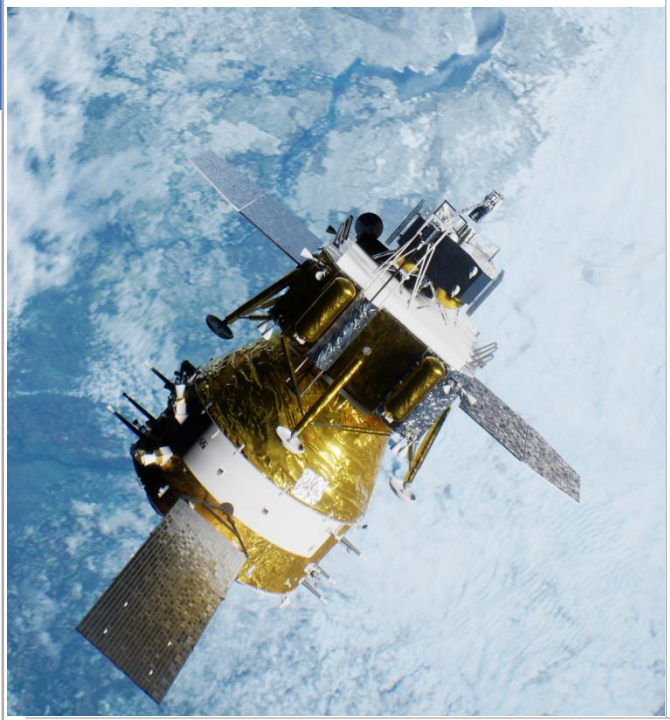
Large wafer

445W/450W

455W/460W/465W



- Module Efficiency: 21.5%
- No. of Cells 120(6×20)
- Weight 23.0kg
- Dimensions 1909×1134×30mm
- Monocrystalline 182×91mm



Shanghai Aerospace Automobile Electromechanical Co., Ltd.
Website：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 component overall power. Excellent heat dissipation avoids hot spot production.

25Ys

Products warranty

25Ys

Warranty on power output

EL

Microcrack resistant enhance reliability, triple EL tested of high quality control.

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

The optimized number and width of main gate lines. Maximize the light receiving area of components and Reduce component power consumption.

1500V

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

2%

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

5W

Positive tolerance 0/+5w guaranteed

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

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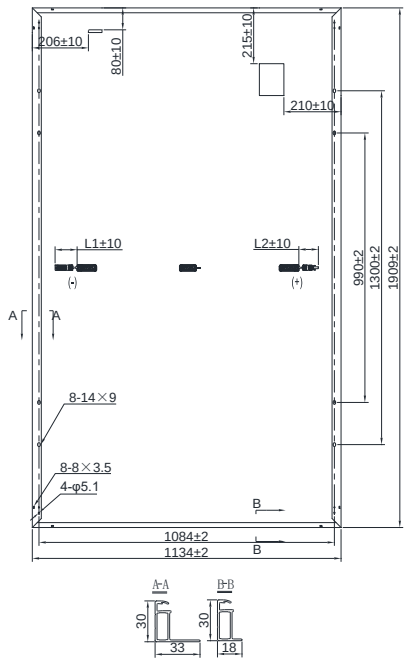
Better Choice For Higher Efficiency!

HT60-18X

445W/450W/455W/460W/465W



Electrical Characteristics (STC)

Module Type	HT60-18X				
Maximum Power(Pmax)	445W	450W	455W	460W	465W
Open Circuit Voltage(Voc)	41.18V	41.33V	41.48V	41.63V	41.78V
Short Circuit Current(Isc)	13.83A	13.90A	13.97A	14.04A	14.11A
Maximum Power Voltage(Vmp)	34.63V	34.78V	34.93V	35.08V	35.23V
Maximum Power Current(Imp)	12.86A	12.95A	13.04A	13.13A	13.22A
Module Efficiency	20.6%	20.8%	21.0%	21.2%	21.5%
Tolerance	Pmax ±3% Voc ±5% Isc ±5%				
Maximum System Voltage	1500V DC(IEC)				
Maximum Series Fuse Rating	25A				
Operating Temperature	-40℃ to +85℃				

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

Electrical Characteristics (NMOT)

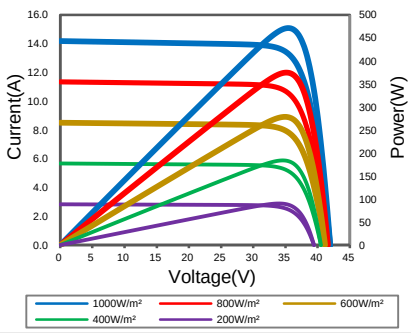
Module Type	HT60-18X				
Maximum Power(Pmax)	331W	335W	338W	342W	346W
Open Circuit Voltage(Voc)	39.03V	39.17V	39.31V	39.46V	39.60V
Short Circuit Current(Isc)	11.16A	11.22A	11.27A	11.33A	11.39A
Maximum Power Voltage(Vmp)	32.82V	32.96V	33.11V	33.25V	33.39V
Maximum Power Current(Imp)	10.09A	10.16A	10.21A	10.29A	10.36A

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

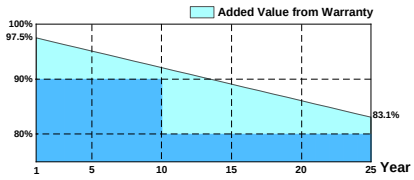
Temperature Coefficient of Pmax	γ (Pm)	-0.33%/℃
Temperature Coefficient of Voc	β (Voc)	-0.26%/℃
Temperature Coefficient of Isc	α (Isc)	0.042%/℃

Solar Cells	Monocrystalline 182× 91mm
No. of Cells	120 (6×20)
Dimensions	1909mm×1134mm×30mm
Weight	23.0kg
Front Glass	High transmission tempered glass
Frame	Anodized aluminum alloy
Junction Box / Connectors	IP68 / PV-HT005-01(HT-saae)
Cable	4mm2(IEC) Length: (+)1200mm, (-)1200mm
Fire Rating	Class C
Packaging Configuration	36 pcs/box: 864 pcs/ 40' HQ Container

- IV Curves



- Warranty



25-year product warranty*

25-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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