MULTIWAY+

HT-SAAE

Reliable State - owned Enterprise Deliver Solar Power since 1960s

HT60-18X

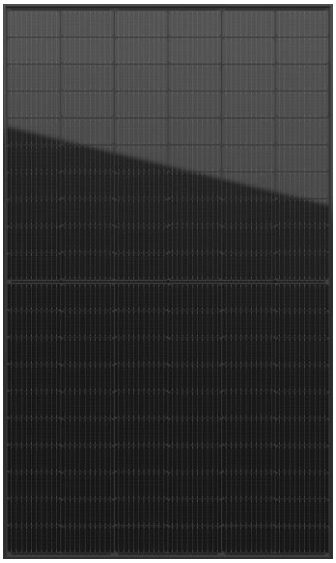
Large wafer

450W/455W

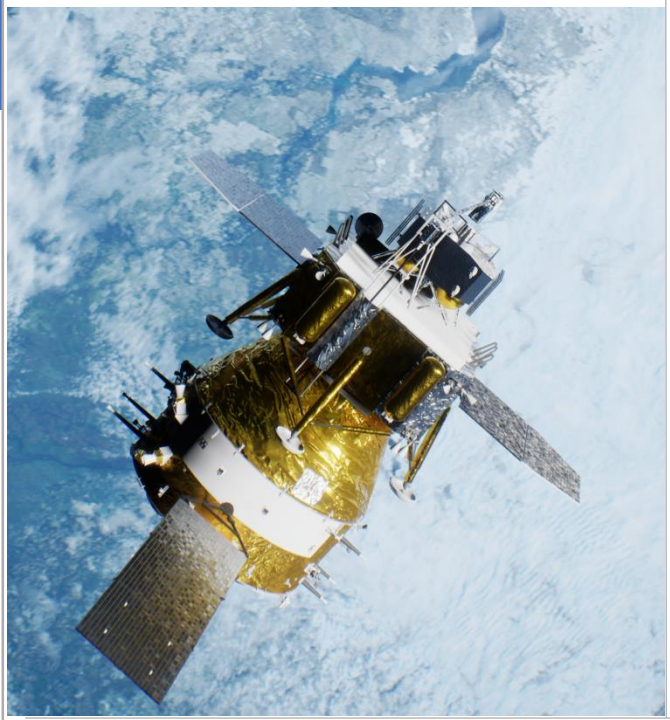
460W/465W/470W

Shanghai Aerospace Automobile
Electromechanical Co., Ltd.
Website：www.ht-saae.com.au

Factory:
Lianyungang Shenzhou New Energy CO., Ltd.
Turkey HT Solar Energy Joint Stock Company



- Module Efficiency: 21.7%
- No. of Cells 120(6×20)
- Weight 23.0kg
- Dimensions 1909×1134×30mm
- Monocrystalline 182×91mm



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

Comprehensive and first-rate certification system

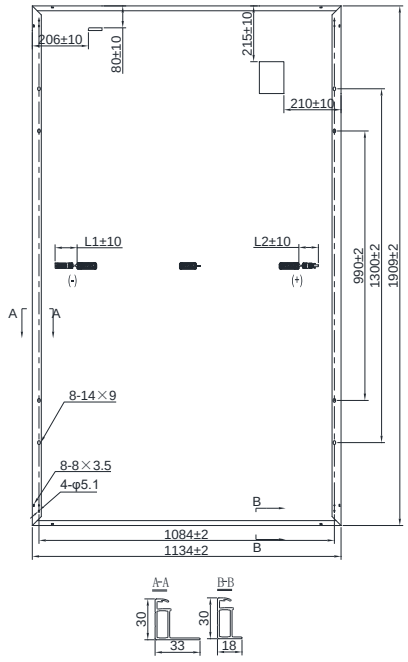
IEC 61215:2016. IEC 61730:2016 Latest Standard
ISO 9001，ISO 14001 and ISO 45001,
meeting the highest international standards
Strict quality control

MULTIWAY+

Better Choice For Higher Efficiency!

HT60-18X

450W/455W/460W/465W/470W



Electrical Characteristics (STC)

Module Type	HT60-18X				
Maximum Power(Pmax)	450W	455W	460W	465W	470W
Open Circuit Voltage(Voc)	41.33V	41.48V	41.63V	41.78V	41.93V
Short Circuit Current(Isc)	13.90A	13.97A	14.04A	14.11A	14.18A
Maximum Power Voltage(Vmp)	34.78V	34.93V	35.08V	35.23V	35.38V
Maximum Power Current(Imp)	12.95A	13.04A	13.13A	13.22A	13.30A
Module Efficiency	20.8%	21.0%	21.2%	21.5%	21.7%
Power Tolerance	0 ~ +5W				
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)

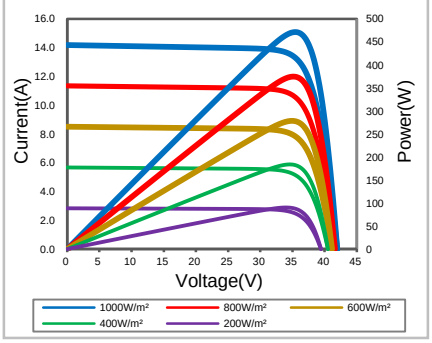
Module Type	HT60-18X				
Maximum Power(Pmax)	335W	338W	342W	346W	350W
Open Circuit Voltage(Voc)	39.17V	39.31V	39.46V	39.60V	39.74V
Short Circuit Current(Isc)	11.22A	11.27A	11.33A	11.39A	11.44A
Maximum Power Voltage(Vmp)	32.96V	33.11V	33.25V	33.39V	33.53V
Maximum Power Current(Imp)	10.16A	10.21A	10.29A	10.36A	10.44A

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

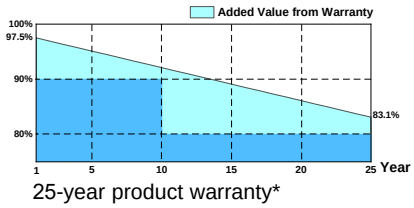
Temperature Coefficient of Pmax	γ (Pm)	-0.33%/℃
Temperature Coefficient of Voc	β (Voc)	-0.26%/℃
Temperature Coefficient of Isc	α (Isc)	0.042%/℃

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	IP68
Cable	4mm2(IEC) Length：(+)1200mm, (-)1200mm
Connectors	MC4 / MC4 Compatible
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