MULTIWAY+

HT-SAAE.PV

Reliable State - owned Enterprise Deliver Solar Power since 1960s

HT54-18X(ND)-F

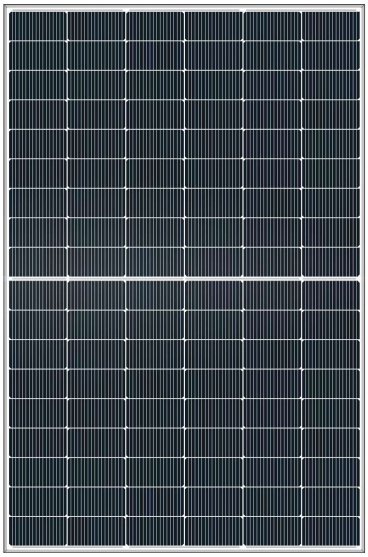
Double Glass TOPCon PV Module

HIGH High power

HT54-18X(ND)-F
415W/420W/425W
430W/435W

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

Made in China



- Module Efficiency Up To 22.3%
- No. of Cells 108 (6×18)
- Weight: 24.0(±0.5)kg
- Dimensions: 1722×1134×30mm
- Cell Dimensions: 182×91mm
- Bifaciality: 80(±5)%
- For Australian market

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

30Ys

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

Double-glass; the optimised number and width of main gate lines, maximising light receiving area and reducing module 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 maximising system output.

Anti-PID

PID resistant (optional)

Low Degradation Rate **

Comprehensive and first-rate certification system

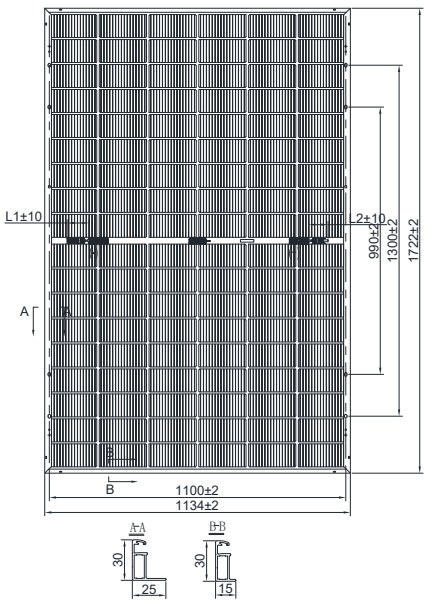
IEC 61215:2016. IEC 61730:2016 Latest Standard
ISO 9001, ISO 14001 and ISO 45001, meeting the highest international standards
Strict quality control

MULTIWAY+

Better Choice For Higher Efficiency!

HT54-18X(ND)-F

HT54-18X(ND)-F-415W/420W/425W/430W/435W



Electrical Characteristics (STC)

Module Type	HT54-18X(ND)-F				
Maximum Power(Pmax)	415W	420W	425W	430W	435W
Open Circuit Voltage(Voc)	38.0V	38.1V	38.2V	38.3V	38.4V
Short Circuit Current(Isc)	13.99A	14.07A	14.15A	14.23A	14.31A
Maximum Power Voltage(Vmp)	31.3V	31.5V	31.7V	31.9V	32.0V
Maximum Power Current(Imp)	13.26A	13.34A	13.42A	13.50A	13.60A
Module Efficiency	21.3%	21.5%	21.8%	22.0%	22.3%
Power Tolerance	±3%W				
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)

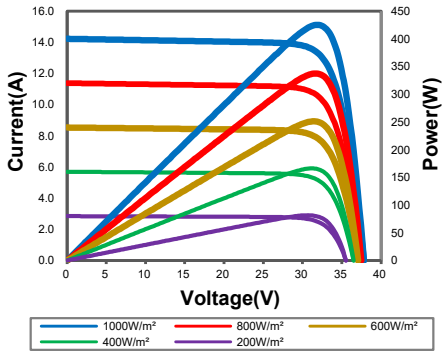
Module Type	HT54-18X(ND)-F				
Maximum Power(Pmax)	316W	319W	323W	327W	331W
Open Circuit Voltage(Voc)	36.5V	36.6V	36.7V	36.8V	36.9V
Short Circuit Current(Isc)	11.27A	11.34A	11.40A	11.47A	11.53A
Maximum Power Voltage(Vmp)	30.0V	30.2V	30.4V	30.6V	30.7V
Maximum Power Current(Imp)	10.53A	10.56A	10.63A	10.69A	10.78A

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

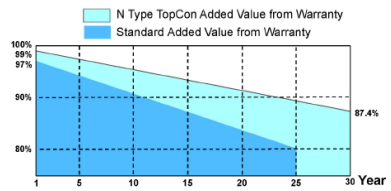
Nominal Module Operating Temperature(NMOT)		43±2℃
Temperature Coefficient of Pmax	γ (Pm)	-0.31%/℃
Temperature Coefficient of Voc	β (Voc)	-0.25%/℃
Temperature Coefficient of Isc	α (Isc)	0.046%/℃

Solar Cells	Monocrystalline 182× 91mm
No. of Cells	108 (6×18)
Dimensions	1722mm×1134mm×30mm
Weight	24.0 (±0.5) kg
Glass (Front/Back)	High transmission coated tempered glass/Heat strength glass
Frame	Anodised aluminum alloy
Junction Box/Connectors	IP68/PV-HT005-01(HT-SAAE products)
Cable	4mm² (IEC) Length: (+) 1200mm, (-) 1200mm
Fire Rating	Class C
Packaging Configuration	36 pcs/box: 936 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