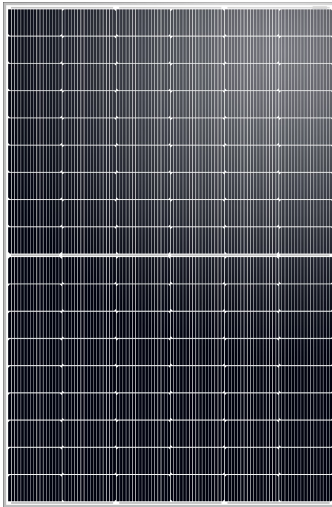


HT54-18X(ND)-F

Double Glass TOPCon PV Module

HIGH High power

440W/445W
450W/455W/460W



- Module Efficiency: 23.0%
- No. of Cells 108(6×18)
- Weight 21.0(±0.5)kg
- Dimensions 1762×1134×30mm



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Shanghai Aerospace Automobile Electromechanical Co., Ltd.
Website: www.ht-saae.com
E-mail: pvmarketing@ht-saae.com



Factory: Lianyungang Shenzhou New Energy CO., Ltd.



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.



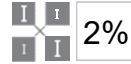
Designed for high voltage systems of up to 1500 VDC, increasing the string length of solar systems and saving on BoS costs.

15Ys

Products warranty

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%

Positive tolerance 0~+3% guaranteed



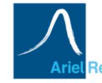
Entire module certified to with stand extreme wind(2400 Pa) and snow loads (5400 Pa)

Anti PID

PID resistant

Comprehensive and first-rate certification system

IEC 61215, IEC 61730 Latest Standard SA 8000, ISO 9001, ISO 14001 and ISO 45001 meeting the highest international standards Strict quality control

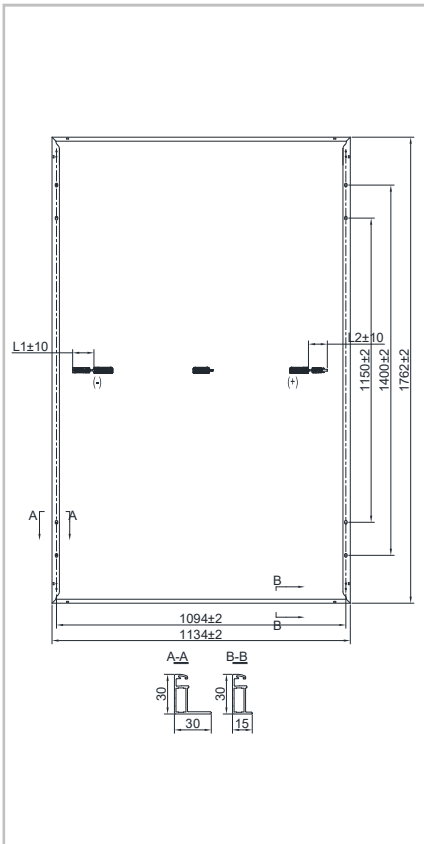


MULTIWAY+

Better Choice For Higher Efficiency!

HT54-18X(ND)-F

440W/445W/450W/455W/460W



Electrical Characteristics (STC)

Module Type	HT54-18X(ND)-F				
Maximum Power(Pmax)	440W	445W	450W	455W	460W
Open Circuit Voltage(Voc)	38.6V	38.7V	38.8V	39.1V	39.4V
Short Circuit Current(Isc)	14.39A	14.47A	14.55A	14.61A	14.67A
Maximum Power Voltage(Vmp)	32.2V	32.4V	32.5V	32.7V	32.9V
Maximum Power Current(Imp)	13.68A	13.76A	13.85A	13.92A	13.99A
Module Efficiency	22.0%	22.3%	22.5%	22.8%	23.0%
Power Tolerance	0 ~ +3%				
Maximum System Voltage	1500V DC(IEC)				
Maximum Series Fuse Rating	25A				
Operating Temperature	-40°C to +85°C				

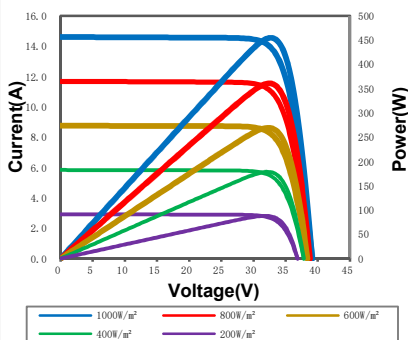
* STC: AM 1.5, Irradiance 1000W/m², module temperature 25°C

Electrical Characteristics (NMOT)

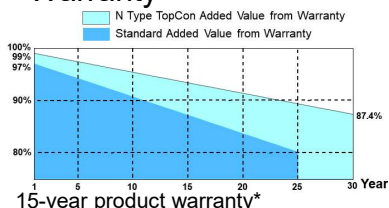
Module Type	HT54-18X(ND)-F				
Maximum Power(Pmax)	335W	338W	342W	346W	350W
Open Circuit Voltage(Voc)	37.1V	37.2V	37.2V	37.5V	37.8V
Short Circuit Current(Isc)	11.60A	11.66A	11.73A	11.77A	11.82A
Maximum Power Voltage(Vmp)	30.9V	31.1V	31.2V	31.4V	31.6V
Maximum Power Current(Imp)	10.84A	10.87A	10.96A	11.02A	11.08A

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

IV Curves



Warranty



15-year product warranty*

30-year warranty on power output*

* Specific information is referred to the product quality guarantee

Nominal Module Operating Temperature(NMOT)	43±2°C	
Temperature Coefficient of Pmax	γ (Pm)	-0.29%/°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	108 (6×18)	
Dimensions	1762×1134×30mm	
Weight	21.0 (±0.5) kg	
Glass (Front/Back)	High transmission coated tempered glass/Heat strengthened glass	
Frame	Anodized aluminum alloy	
Junction Box	IP68	
Cable	4mm ² (IEC)	
Connectors	MC4 / MC4 Compatible	
Packaging Configuration	36 pcs/box: 936 pcs/ 40' HQ Container	

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*The module recycling should be carried out by the professional institutions at the end of module life cycle

*Copyright@2024V4 Specifications are subject to change without further notification