

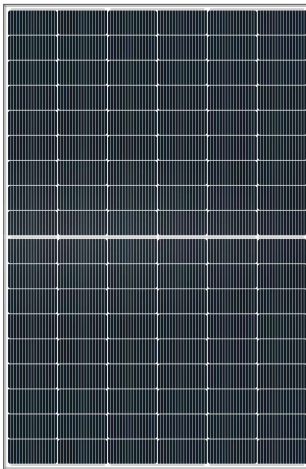
# HT54-18X(ND)-F

Double Glass TOPCon PV Module

**HIGH** High power

Shanghai Aerospace Automobile  
Electromechanical Co., Ltd.

**425W/430W**  
**435W/440W/445W**



- Module Efficiency: 22.8%
- No. of Cells 108(6×18)
- Weight 24.0(±0.5)kg
- Dimensions 1722×1134×30mm
- Monocrystalline 182×91mm
- Bifaciality 80(±5)%



MULTIWAY+



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



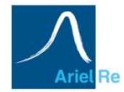
Entire module certified to with stand extreme wind(2400 Pa) and snow loads (5400 Pa)

Anti **PID**

PID resistant

### Comprehensive and first-rate certification system

IEC 61215:2016, IEC 61730:2016 Latest Standard SA 8000, ISO 9001, ISO 14001 and ISO 45001 meeting the highest international standards Strict quality control

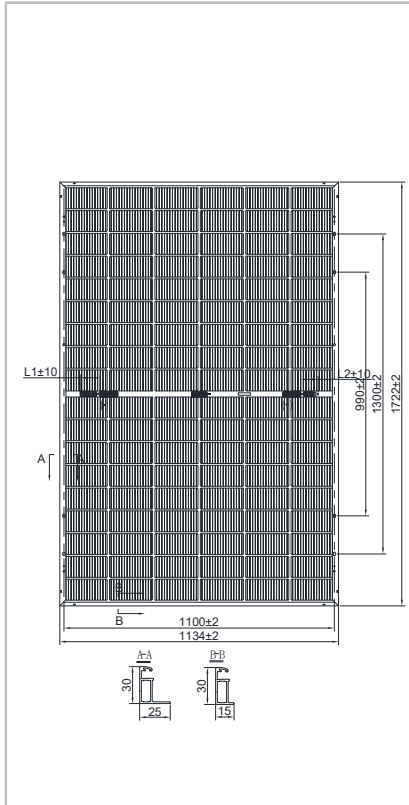


# MULTIWAY+

Better Choice For Higher Efficiency!

# HT54-18X(ND)-F

## 425W/430W/435W/440W/445W



### Electrical Characteristics (STC)

Module Type	HT54-18X(ND)-F				
Maximum Power(Pmax)	425W	430W	435W	440W	445W
Open Circuit Voltage(Voc)	38.2V	38.3V	38.4V	38.6V	38.7V
Short Circuit Current(Isc)	14.15A	14.23A	14.31A	14.39A	14.47A
Maximum Power Voltage(Vmp)	31.7V	31.9V	32.0V	32.2V	32.4V
Maximum Power Current(Imp)	13.42A	13.50A	13.60A	13.68A	13.76A
Module Efficiency	21.8%	22.0%	22.3%	22.5%	22.8%
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/m<sup>2</sup>, module temperature 25°C

### Electrical Characteristics (NMOT)

Module Type	HT54-18X(ND)-F				
Maximum Power(Pmax)	323W	327W	331W	335W	338W
Open Circuit Voltage(Voc)	36.7V	36.8V	36.9V	37.1V	37.2V
Short Circuit Current(Isc)	11.40A	11.47A	11.53A	11.60A	11.66A
Maximum Power Voltage(Vmp)	30.4V	30.6V	30.7V	30.9V	31.1V
Maximum Power Current(Imp)	10.63A	10.69A	10.78A	10.84A	10.87A

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

### Bifacial output-rearside power gain

5%	Maximum Power(Pmax)	446W	452W	457W	462W	467W
	Module Efficiency	22.9%	23.1%	23.4%	23.7%	23.9%
15%	Maximum Power(Pmax)	489W	495W	500W	506W	512W
	Module Efficiency	25.0%	25.3%	25.6%	25.9%	26.2%
25%	Maximum Power(Pmax)	531W	538W	544W	550W	556W
	Module Efficiency	27.2%	27.5%	27.8%	28.2%	28.5%

Nominal Module Operating Temperature(NMOT) 43±2°C

Temperature Coefficient of Pmax  $\gamma$  (Pm) -0.31%/°C

Temperature Coefficient of Voc  $\beta$  (Voc) -0.25%/°C

Temperature Coefficient of Isc  $\alpha$  (Isc) 0.046%/°C

Solar Cells Monocrystalline 182× 91mm

No. of Cells 108 (6×18)

Dimensions 1722×1134×30mm

Weight 24.0 (±0.5) kg

Glass (Front /Back) High transmission coated tempered glass/Heat strengthened glass

Frame Anodized aluminum alloy

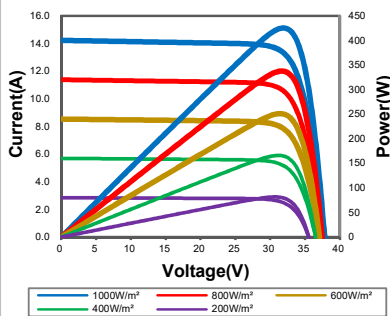
Junction Box IP68

Cable 4mm<sup>2</sup> (IEC) Length: (+) 200mm, (-) 300mm or customized

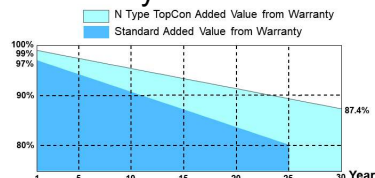
Connectors MC4 / MC4 Compatible

Packaging Configuration 36 pcs/box: 936 pcs/ 40' HQ Container

### IV Curves



### Warranty



15-year product warranty\*

30-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

\*Copyright@2024V1 Specifications are subject to change without further notification

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