

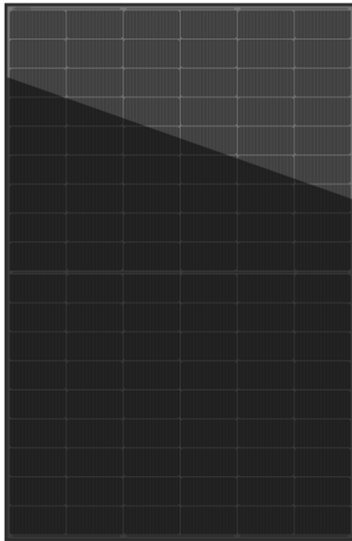
HT54-18X(ND)-F

Double Glass TOPCon PV Module

HIGH High power

440W/445W

450W/455W/460W



- Module Efficiency: 23.0%
- No. of Cells 108(6×18)
- Weight 25.0(±0.5)kg
- Dimensions 1762×1134×30mm
- Bifaciality 80(±5)%



Shanghai Aerospace Automobile
Electromechanical Co., Ltd.
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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.



1500V

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

EL

Microcrack resistant
Double glass structure
enhance reliability,
double EL tested of high
quality control.



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



2%

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

0~+3%

Positive tolerance
0~+3% guaranteed

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



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

Bifacial output-rearside power gain

5%	Maximum Power(Pmax)	462W	467W	473W	478W	483W
	Module Efficiency	23.1%	23.4%	23.6%	23.9%	24.2%
15%	Maximum Power(Pmax)	506W	512W	518W	523W	529W
	Module Efficiency	25.3%	25.6%	25.9%	26.2%	26.5%
25%	Maximum Power(Pmax)	550W	556W	563W	569W	575W
	Module Efficiency	27.5%	27.8%	28.2%	28.5%	28.8%

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 25.0 (±0.5) kg

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

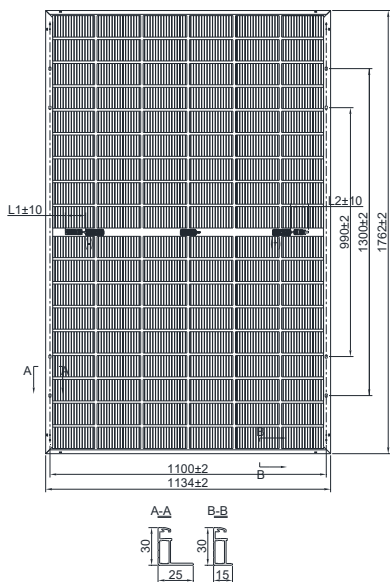
Frame Anodized aluminum alloy

Junction Box IP68

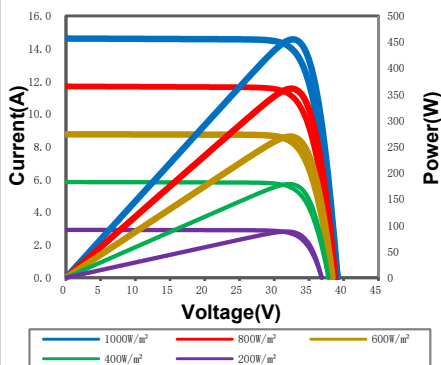
Cable 4mm² (IEC) Length: (+) 200mm, (-) 300mm or customized

Connectors MC4 / MC4 Compatible

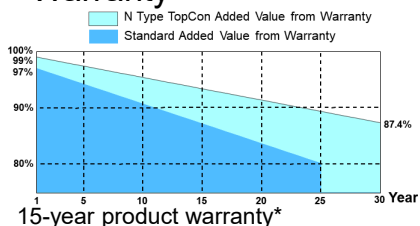
Packaging Configuration 36 pcs/box: 936 pcs/ 40' HQ Container



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@2024V4 Specifications are subject to change without further notification