HT-SOLAR

Reliable State - Owned Enterprise Deliver Solar Power Since 1960s

MULTIWAY +

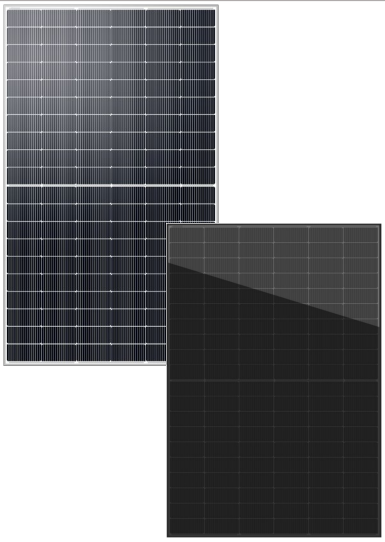
HT60-210R(ND)-F

Double Glass TOPCon PV Module

HIGH High power

Lianyungang Shenzhou New Energy CO., Ltd.
Made in China

HT60-210R(ND)-F-XXX
XXX=Pmax at STC 555W/560W/565W/570W/575W



- Module Efficiency: 23.3%
- No. of Cells 120(6×20)
- Weight 31.0(±0.5)kg
- Dimensions 2172×1134×30mm
- Bifaciality 80(±5)%
- For Australia market

Half cut cell technology can reduce the internal power loss and improve module overall power. Excellent heat dissipation avoids hot spot production.

15/30Ys
Product warranty
15Yrs for ground mounted
30Yrs for rooftop

30Ys
Warranty on power output (front side)

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

Design load (positive /negative):3600Pa/1600Pa
Safety factors:1.5

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.

2%
All the modules are sorted and packaged by amperage, reducing mismatch losses and maximizing system output.

0~+3%
Power Binning range 0~+3%

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

FSC optional

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Better Choice For Higher Efficiency!

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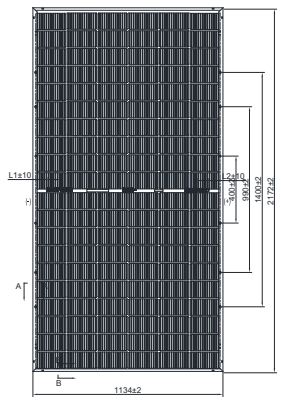
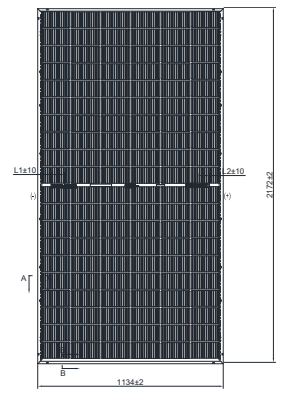




Electrical Characteristics (STC)

Module Type	HT60-210R(ND)-F				
Maximum Power(Pmax)	555W	560W	565W	570W	575W
Open Circuit Voltage(Voc)	44.40V	44.59V	44.78V	44.97V	45.16V
Short Circuit Current(Isc)	16.14A	16.17A	16.20A	16.23A	16.26A
Maximum Power Voltage(Vmp)	36.58V	36.77V	36.96V	37.15V	37.34V
Maximum Power Current(Imp)	15.19A	15.25A	15.31A	15.36A	15.41A
Module Efficiency	22.5%	22.7%	22.9%	23.1%	23.3%
Isc(BSI)	20.01A	20.05A	20.09A	20.13A	20.16A
Power/Voc/Isc Measurement Tolerances	±3%/±5%/±5%				
Maximum System Voltage	1500V DC(IEC)				
Maximum Series Fuse Rating	30A				
Operating Temperature	-40-70°C, Module[T98] max :70°C				

* STC: AM 1.5, Irradiance 1000W/m², temperature 25℃

Electrical Characteristics (NMOT)

Module Type	HT60-210R(ND)-F				
Maximum Power(Pmax)	421W	425W	428W	432W	436W
Open Circuit Voltage(Voc)	42.40V	42.58V	42.76V	42.95V	43.13V
Short Circuit Current(Isc)	13.02A	13.04A	13.07A	13.09A	13.12A
Maximum Power Voltage(Vmp)	34.93V	35.12V	35.30V	35.48V	35.66V
Maximum Power Current(Imp)	12.05A	12.10A	12.12A	12.18A	12.23A

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

Electrical ratings at irradiance level at BNPI

Rated Voc at BNPI [V] / tolerance ±5%	44.38	44.57	44.76	44.95	45.14
Rated Isc at BNPI [A] / tolerance ±5%	17.88	17.92	17.95	17.98	18.02
Rated Vmp at BNPI [V]	36.6	36.79	36.98	37.17	37.36
Rated Imp at BNPI [A]	16.83	16.9	16.96	17.02	17.07
Rated Pmax at BNPI [W] / tolerance ±3%	616	621.6	627.3	632.6	637.9

Bifaciality coefficient with tolerance(BNPI)

φPmax	80%±5%
φVoc	98%±5%
φIsc	80%±5%

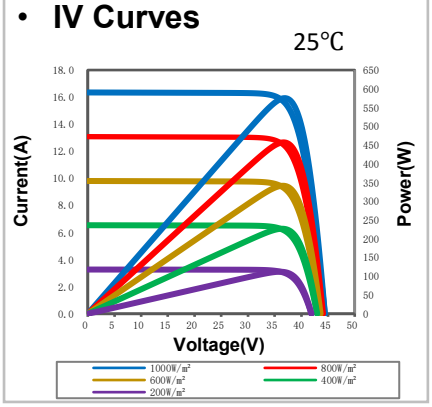
Fire Class Rating

Class C

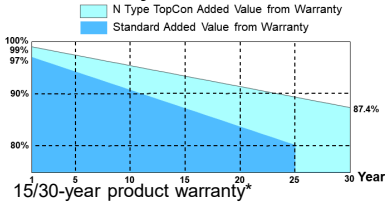
Nominal Module Operating Temperature(NMOT)		43±2℃
Temperature Coefficient of Pmax	γ (Pm)	-0.29%/℃
Temperature Coefficient of Voc	β (Voc)	-0.25%/℃
Temperature Coefficient of Isc	α (Isc)	0.046%/℃

Solar Cells	Monocrystalline
No. of Cells	120 (6×20)
Dimensions	2172×1134×30mm
Weight	31.0(±0.5) kg
Glass	Heat strengthened glass
Frame	Anodized aluminum alloy/Polymer Composite Material Frame
Junction Box	IP68
Cable	4mm² (IEC) Length: (+) 200mm, (-) 300mm or customized
Connectors	PV-HT005-1(Shanghai Aerospace Automobile Electromechanical Co., Ltd.)
Packaging Configuration	36 pcs/box: 720 pcs/ 40' HQ Container

- **IV Curves**



- **Warranty**



15/30-year product warranty*

30-year warranty on power output*

Only apply to the front-side (STC)

* 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