HT-SOLAR

Reliable State - Owned Enterprise Deliver Solar Power Since 1960s

MULTIWAY +

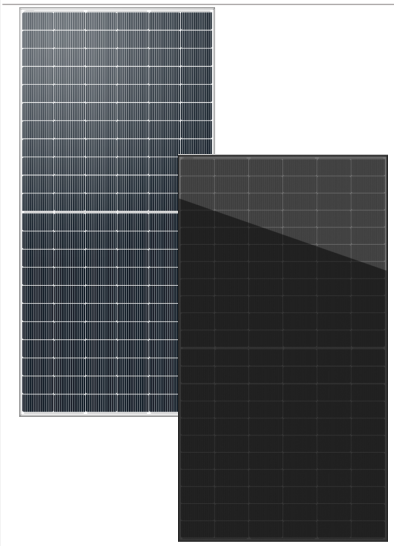
HT66-210R(ND)-F

Double Glass TOPCon PV Module

HIGH High power

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

HT66-210R(ND)-F-XXX
XXX=Pmax at STC 615W/620W625W/630W/635W



- Module Efficiency: 23.5%
- No. of Cells 132(6×22)
- Weight 33.5(±0.5)kg
- Dimensions 2382×1134×30mm
- 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

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Better Choice For Higher Efficiency!

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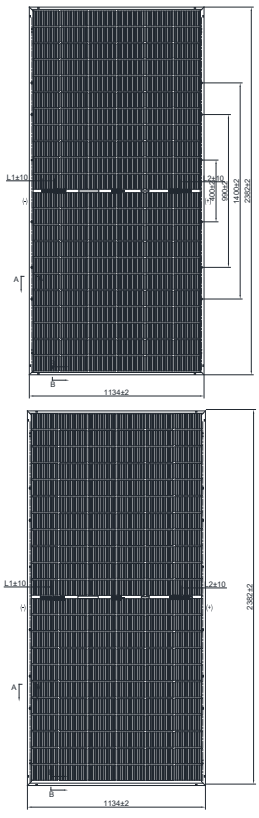


Electrical Characteristics (STC)

Module Type	HT66-210R(ND)-F				
Maximum Power(Pmax)	615W	620W	625W	630W	635W
Open Circuit Voltage(Voc)	48.93V	49.12V	49.31V	49.50V	49.69V
Short Circuit Current(Isc)	16.05A	16.10A	16.15A	16.20A	16.25A
Maximum Power Voltage(Vmp)	40.34V	40.53V	40.72V	40.91V	41.10V
Maximum Power Current(Imp)	15.25A	15.30A	15.35A	15.40A	15.45A
Module Efficiency	22.8%	23.0%	23.1%	23.3%	23.5%
Isc(BSI)	19.90A	19.96A	20.03A	20.09A	20.15A
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	HT66-210R(ND)-F				
Maximum Power(Pmax)	466W	470W	474W	478W	481W
Open Circuit Voltage(Voc)	46.73V	46.91V	47.09V	47.27V	47.45V
Short Circuit Current(Isc)	12.95A	12.99A	13.03A	13.07A	13.11A
Maximum Power Voltage(Vmp)	38.52V	38.71V	38.89V	39.07V	39.25V
Maximum Power Current(Imp)	12.10A	12.14A	12.19A	12.23A	12.25A

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

Electrical ratings at irradiance level at BNPI

Rated Voc at BNPI [V] / tolerance ±5%	48.91	49.1	49.29	49.48	49.67
Rated Isc at BNPI [A] / tolerance ±5%	17.78	17.84	17.89	17.95	18.01
Rated Vmp at BNPI [V]	40.36	40.55	40.74	40.93	41.12
Rated Imp at BNPI [A]	16.9	16.95	17.01	17.06	17.12
Rated Pmax at BNPI [W] / tolerance ±3%	682	687.4	692.9	698.4	703.9

Bifaciality coefficient with tolerance(BNPI)

φPmax	80%±5%
φVoc	98%±5%
φIsc	80%±5%

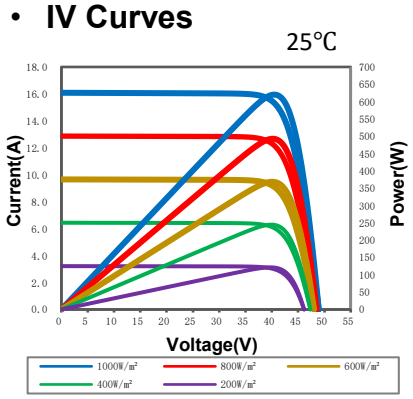
Fire Class Rating

Class C

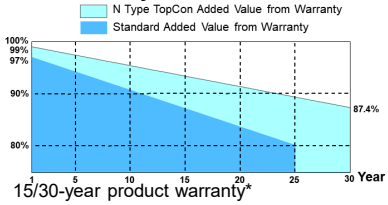
Nominal Module Operating Temperature(NMOT)		43±2℃
Temperature Coefficient of Pmax	γ (Pm)	-0.29%/℃
Temperature Coefficient of Voc	β (Voc)	-0.25%/℃
Temperature Coefficient of Isc	α (Isc)	0.046%/℃

Solar Cells	Monocrystalline
No. of Cells	132 (6×22)
Dimensions	2382×1134×30mm
Weight	33.5(±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