

HT40-18X(ND)

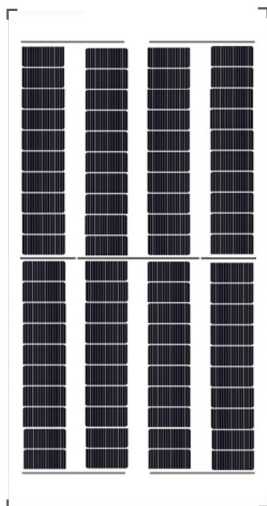
Double Glass TOPCon PV Module

HIGH

High power

HT40-18X(ND)-XXX

XXX=Pmax at STC 320W/325W/330W/335W/340W



- Light transmittance: 45(±5)%
- No. of Cells 80(4×20)
- Weight 30.0(±0.5)kg
- Dimensions 2272×1128×6.5mm
- For Australia market



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



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%

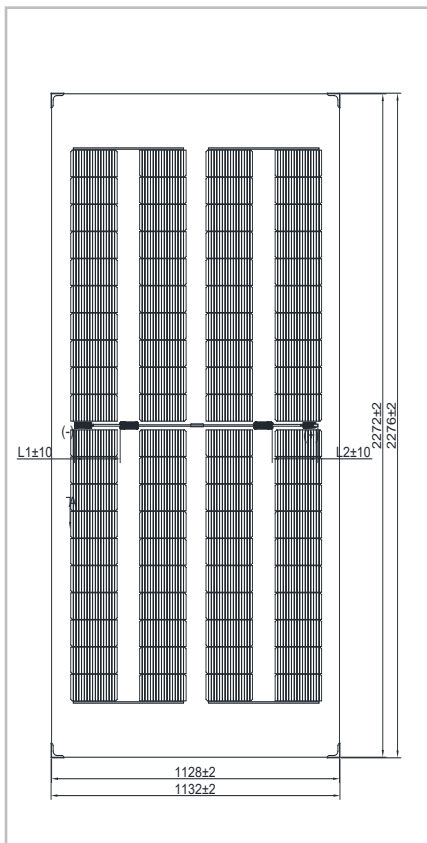
Anti PID

PID resistant
(available on request)

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	HT40-18X(ND)				
Maximum Power(Pmax)	320W	325W	330W	335W	340W
Open Circuit Voltage(Voc)	28.88V	29.07V	29.26V	29.45V	29.64V
Short Circuit Current(Isc)	14.28A	14.34A	14.40A	14.46A	14.52A
Maximum Power Voltage(Vmp)	23.50V	23.60V	23.80V	24.00V	24.20V
Maximum Power Current(Imp)	13.63A	13.79A	13.88A	13.97A	14.06A
Module Efficiency	12.5%	12.7%	12.9%	13.1%	13.3%
Isc(BSI)	17.71A	17.78A	17.86A	17.93A	18.00A
Power/Voc/Isc	±3%/±5%/±5%				
Measurement Tolerances					
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°C

Electrical Characteristics (NMOT)

Module Type	HT40-18X(ND)				
Maximum Power(Pmax)	243W	246W	250W	254W	258W
Open Circuit Voltage(Voc)	27.58V	27.76V	27.94V	28.12V	28.31V
Short Circuit Current(Isc)	11.52A	11.57A	11.62A	11.66A	11.71A
Maximum Power Voltage(Vmp)	22.44V	22.54V	22.73V	22.92V	23.11V
Maximum Power Current(Imp)	10.83A	10.91A	11.00A	11.08A	11.16A

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

Electrical ratings at irradiance level at BNPI

Rated Voc at BNPI [V] / tolerance ±5%	28.86	29.05	29.24	29.43	29.62
Rated Isc at BNPI [A] / tolerance ±5%	15.82	15.89	15.96	16.02	16.09
Rated Vmp at BNPI [V]	23.52	23.62	23.82	24.02	24.22
Rated Imp at BNPI [A]	15.1	15.28	15.38	15.48	15.58
Rated Pmax at BNPI [W] / tolerance ±3%	355.2	360.9	366.3	371.8	377.3

Bifaciality coefficient with tolerance(BNPI)

φPmax	80%±5%
φVoc	98%±5%
φIsc	80%±5%

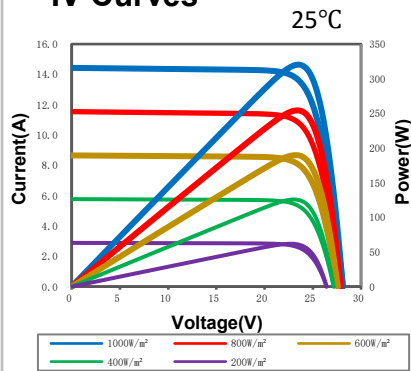
Fire Class Rating

Class C

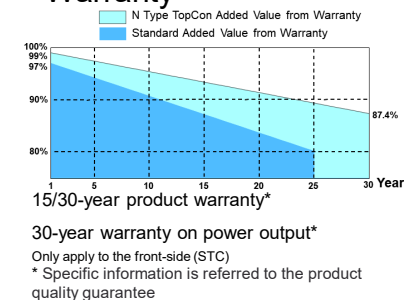
Nominal Module Operating Temperature(NMOT)		43±2°C
Temperature Coefficient of Pmax	γ (Pm)	-0.29%/°C
Temperature Coefficient of Voc	β (Voc)	-0.25%/°C
Temperature Coefficient of Isc	α (Isc)	0.046%/°C

Solar Cells	Monocrystalline
No. of Cells	80 (4×20)
Dimensions	2272×1128×6.5mm
Weight	30.0(±0.5)kg
Glass	Heat strengthened glass
Frame	N/A
Junction Box	IP68
Cable	4mm² (IEC) Length: (+) 400mm, (-) 300mm or customized
Connectors	PV-HT005-1(Shanghai Aerospace Automobile Electromechanical Co., Ltd.)
Packaging Configuration	33 pcs/box: 330 pcs/ 40' HQ Container

IV Curves



Warranty



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

*Copyright@2025V3 Specifications are subject to change without further notification*Only available in Australia