



HT54-18X(N)

420W/425W/430W

435W/440W

15
Yrs

PRODUCT
WARRANTY

30
Yrs

LINEAR POWER
WARRANTY



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

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.

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

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

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



Reliable State - Owned Enterprise Deliver Solar Power Since 1960s

Comprehensive and first-rate
certification system
IEC 61215:2016, IEC 61730:2016 Latest Standard
ISO 9001 ISO 14001 and ISO 45001,
meeting the highest international standards
Strict quality control

Factory:
Lianyungang Shenzhou New Energy CO., Ltd.
www.HT-LYG.COM

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Electrical Characteristics (STC)

Module Type	HT54-18X(N)				
Maximum Power(Pmax)	420W	425W	430W	435W	440W
Open Circuit Voltage(Voc)	38.1V	38.2V	38.3V	38.4V	38.6V
Short Circuit Current(Isc)	14.07A	14.15A	14.23A	14.31A	14.39A
Maximum Power Voltage(Vmp)	31.5V	31.7V	31.9V	32.0V	32.2V
Maximum Power Current(Imp)	13.34A	13.42A	13.50A	13.60A	13.68A
Module Efficiency	21.5%	21.8%	22.0%	22.3%	22.5%
Power Tolerance	0 ~ +3%				
Maximum System Voltage	1500V DC(IEC)				
Maximum Series Fuse Rating	25A				
Operating Temperature	-40°C to +85°C				

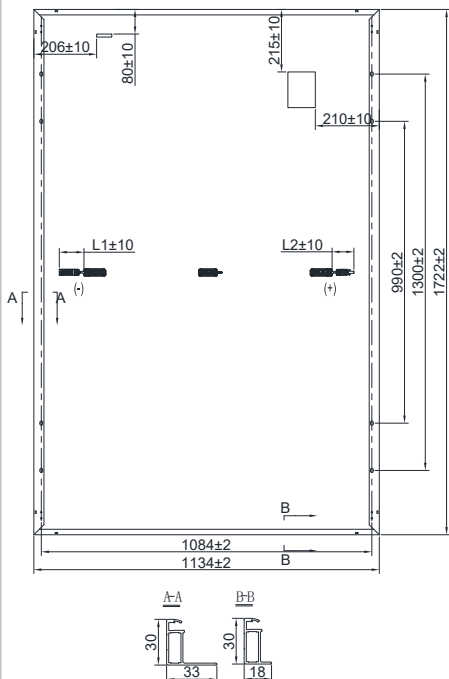
* STC: AM 1.5, Irradiance 1000W/m², module temperature 25°C

Electrical Characteristics (NMOT)

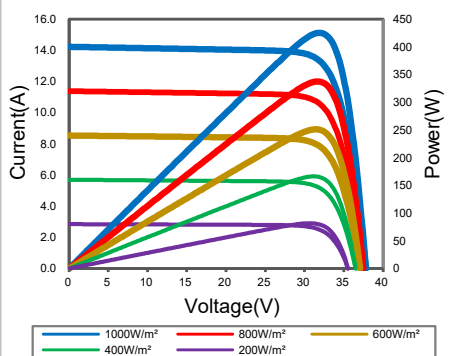
Module Type	HT54-18X(N)				
Maximum Power(Pmax)	319W	323W	327W	331W	335W
Open Circuit Voltage(Voc)	36.6V	36.7V	36.8V	36.9V	37.1V
Short Circuit Current(Isc)	11.34A	11.40A	11.47A	11.53A	11.60A
Maximum Power Voltage(Vmp)	30.2V	30.4V	30.6V	30.7V	30.9V
Maximum Power Current(Imp)	10.56A	10.63A	10.69A	10.78A	10.84A

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

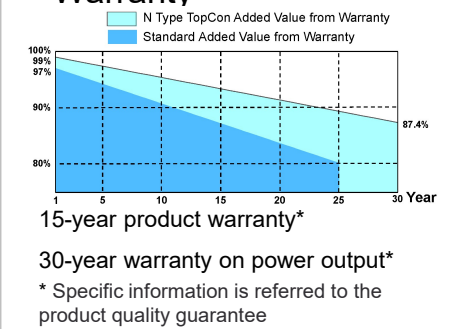
Nominal Module Operating Temperature(NMOT)	43±2°C
Temperature Coefficient of Pmax	γ (Pm) -0.31%/°C
Temperature Coefficient of Voc	β (Voc) -0.25%/°C
Temperature Coefficient of Isc	α (Isc) 0.046%/°C
Solar Cells	Monocrystalline 182× 91mm
No. of Cells	108 (6×18)
Dimensions	1722×1134×30mm
Weight	21.0 (±0.5) kg
Glass	High light transmittance coated tempered 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



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

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