

## Hitouch 5N

HN18-60HT

465-485W

### TOPCon

Bifacial Module

22.39%

Maximum Efficiency

15 YEARS

Product Warranty



#### Higher Power Output

Higher module conversion efficiency benefit from bigger wafer and half-cell structure.

MBB technology enhances current collection with lower series resistance.



#### Excellent Temperature Coefficient

Lower operating temperature and temperature coefficient increases the power output



#### Long-Term Reliability

Module certified to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal).

Excellent anti-PID performance to guarantee a better sustainability in harsh environment.

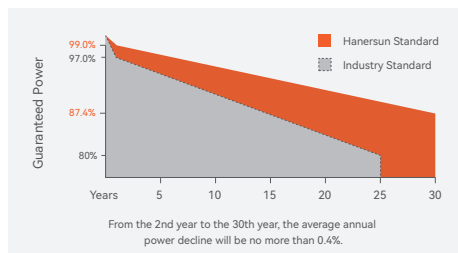


#### Lower Hot Spot and Crack Risk

Reduce hot-spot risk with optimized electrical design and lower operating current.

Reduce crack risk by MBB solar cell design.

#### Power Warranty



15-year product warranty



30-year linear power output warranty

#### Insurance



Munich RE



太平洋保险 CPIC

#### Certificates



#### About Hanersun

Hanersun is a world leading solar module manufacturer and comprehensive energy solution provider. We provide customers with cutting edge solar modules, and services for the entire project life cycle.

## Electrical Characteristics

Module Type	HN18-60HT465W		HN18-60HT470W		HN18-60HT475W		HN18-60HT480W		HN18-60HT485W	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax)	465	356	470	360	475	364	480	368	485	372
Maximum Power Voltage (Vmp)	35.30	32.75	35.50	32.95	35.70	33.15	35.90	33.35	36.10	33.55
Maximum Power Current (Imp)	13.20	10.90	13.26	10.95	13.32	11.00	13.38	11.05	13.44	11.09
Open-circuit Voltage (Voc)	42.20	39.65	42.40	39.85	42.60	40.05	42.80	40.25	43.00	40.45
Short-circuit Current (Isc)	13.99	11.55	14.05	11.60	14.12	11.66	14.18	11.71	14.24	11.75
Module Efficiency(%)	21.47%		21.70%		21.93%		22.16%		22.39%	

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5.  
\*Measuring tolerance: 0 ~ +5W

NMOT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s.

## Electrical Characteristics with 10% Solar Irradiation Ratio

Module Type	HN18-60HT465W	HN18-60HT470W	HN18-60HT475W	HN18-60HT480W	HN18-60HT485W
Maximum Power (Pmax)	488	493	498	503	508
Maximum Power Voltage (Vmp)	35.30	35.50	35.70	35.90	36.10
Maximum Power Current (Imp)	13.84	13.90	13.96	14.02	14.08
Open-circuit Voltage (Voc)	42.20	42.40	42.60	42.80	43.00
Short-circuit Current (Isc)	14.69	14.75	14.83	14.89	14.95

## Mechanical Parameters

Solar Cells	Monocrystalline (182mm)
Module Dimensions	1910*1134*30mm
Glass	2mm-2mm
Frame	Anodized Aluminium Alloy
Output Cable	4.0mm <sup>2</sup> , 300/300mm

No. of Cells	120[2 x (10x 6) ]
Weight	25.5kg
Encapsulant Material	EVA/POE
J-Box	IP68
Connector	MC4 Compatible

## Temperature Ratings

NMOT (Nominal operating cell temperature)	42°C(±2°C)
Temperature Coefficient of Pmax	-0.310%/°C
Temperature Coefficient of Voc	-0.260%/°C
Temperature Coefficient of Isc	+0.046%/°C

(Do not connect Fuse in Combiner Box with two or more strings in parallel connection)

## Operating Parameters

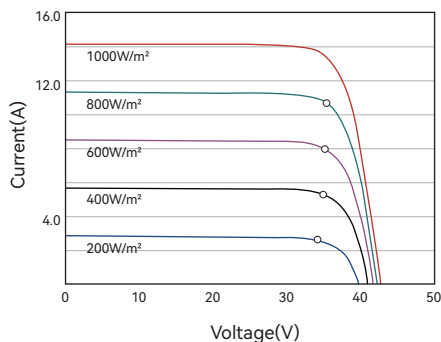
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	30A
Bifacility	80%-85%

## Packaging

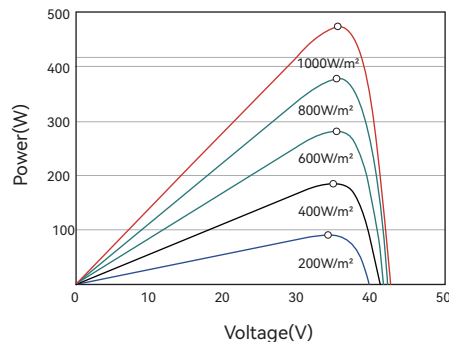
Pcs per Pallet: 36

Pcs per 40' HC: 864

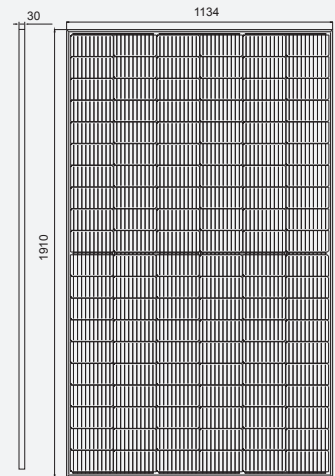
## I-V Curves of PV Module (475W)



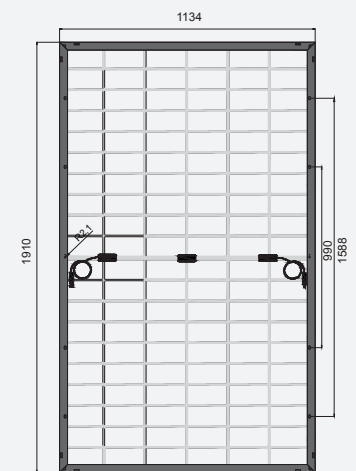
## P-V Curves of PV Module (475W)



## Dimensions (Unit: mm)



Front View



Back View

