


# HiSEER 5N

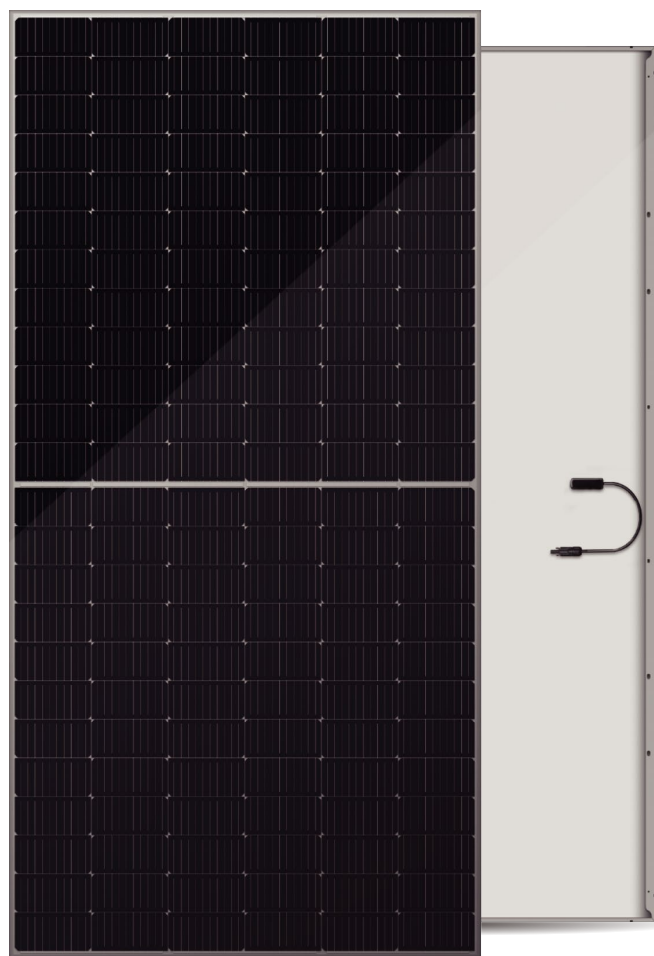
SH18-72H-S 540-560W

Perc Module

 **540-560W**  
Max. Power Output

 **2279\*1134mm**  
Size

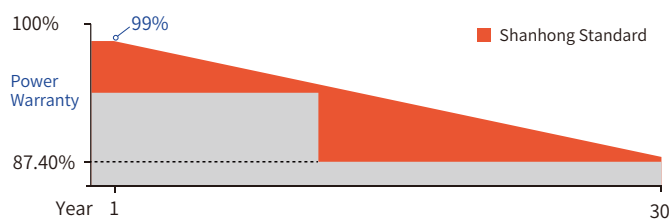
 **21.7%**  
Module Efficiency



## LINEAR PERFORMANCE WARRANTY

**30** Years linear power output warranty

**15** Years product warranty on materials and workmanship



30 years decay  $\leq 0.40\%$  annually on average

## Product and System Certification

- IEC61215(2016)/IEC61730(2018)
- IEC61701/IEC62716/IEC60068 ● ISO9001:2015
- ISO14001:2015 ● ISO45001:2018

## Product advantages



### Half chip technology improves power output

Compared to a whole cell, a half cell battery reduces current by half and lowers heat loss. The decrease in hot spot temperature can effectively increase power.



### Parallel structure reduces occlusion loss

Half piece components, with their special parallel series structure, can be arranged longitudinally, improving the utilization of brackets and land while reducing power generation losses caused by shading.



### Reduce heat generation and minimize temperature rise losses

In the outdoor working state of the component, the temperature of the half component itself is about 1.6 °C lower than that of the conventional whole component.



### Low current performance, reducing packaging loss

The half chip component utilizes the low current characteristic, and the packaging loss is reduced to within 0.2%.



\*\*Due to different certification requirements in each market, please consult with SHANHONG sales department for appropriate certification.

## Electrical Characteristics(STC)

Maximum Power (Pmax)	540	545	550	555	560
Maximum Power Voltage (Vmp)	41.64	41.80	41.96	42.26	42.50
Maximum Power Current (Imp)	12.97	13.04	13.11	13.14	13.18
Open-circuit Voltage (Voc)	49.60	49.75	49.90	50.20	50.40
Short-circuit Current (Isc)	13.86	13.93	14.00	14.04	14.10
Module Efficiency [%]	20.9	21.1	21.3	21.5	21.7
Measuring tolerance [%]	0~+5%	0~+5%	0~+5%	0~+5%	0~+5%

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5

## Electrical Characteristics(NOCT)

Maximum Power (Pmax)	408	412	416	420	424
Maximum Power Voltage (Vmp)	38.89	39.20	39.39	39.69	39.86
Maximum Power Current (Imp)	10.47	10.51	10.55	10.59	10.64
Open-circuit Voltage (Voc)	46.34	46.55	46.66	46.88	47.08
Short-circuit Current (Isc)	11.09	11.13	11.18	11.24	11.30

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

## Mechanical Data

Module Dimensions	2279*1134*30mm
Solar Cells	Monocrystalline (182mm)
No. of Cells	144 [2 x (12 x 6)]
Glass	2*2mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Encapsulant	EVA/EVA
J-Box	IP68
Connector	MC4 Compatible
Output Cable	4.0mm <sup>2</sup> , 300/300mm
Weight	28kg

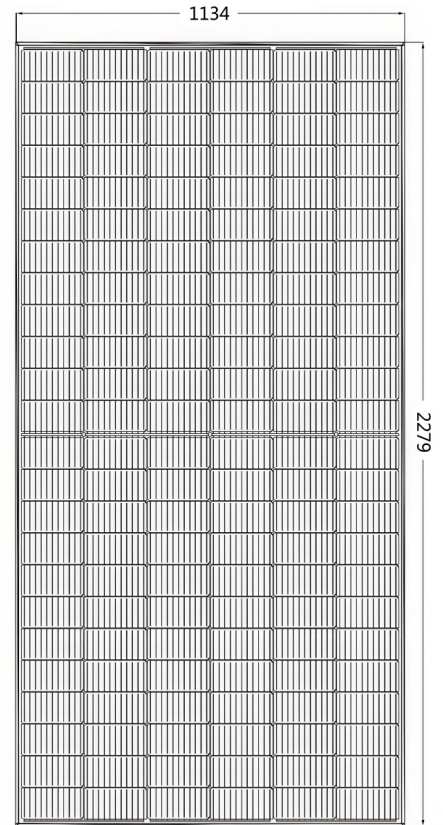
## Operating Data

Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC(IEC)
Maximum Series Fuse Rating	25A
Bifaciality	/

## Temperature Ratings

Nominal operating cell temperature	45°C(±2°C)
Temperature Coefficient of Pmax	-0.340%/°C
Temperature Coefficient of Voc	-0.280%/°C
Temperature Coefficient of Isc	+0.048%/°C

## Structural Diagram(mm)

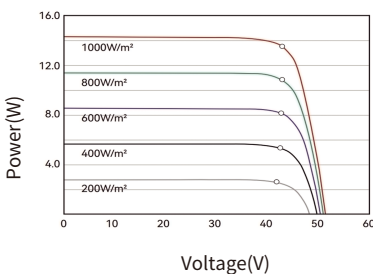


## Packaging

Pallet Dimensions	2308×1120×1248 mm
Information	36 Pcs per Pallet, 720 Pcs per 40' HC

## IV Curve and PV Curve

Test temperature 25°C



Irradiance: AM1.5, 1000W/m<sup>2</sup>

