

HISEER^{5N} Anti-soiling

SH18-72H-D 570-590W

570-590W / Max. Power Output

2278*1134mm / Size

22.8% / Module Efficiency

30 30-year linear power output warranty with over-performance.

15 15-year product material and workmanship warranty.



Product Advantages



Half-cut technology for enhanced power output.

Compared to full-cell modules, half-cut cells reduce current by half, lower thermal losses, and decrease hot spot temperatures, effectively improving power output.



Parallel-series structure reduces shading losses.

With its special parallel-series configuration, half-cut modules allow for vertical arrangement, improving racking and land utilization while minimizing power loss caused by shading.



Lower heat generation and reduced temperature-related losses.

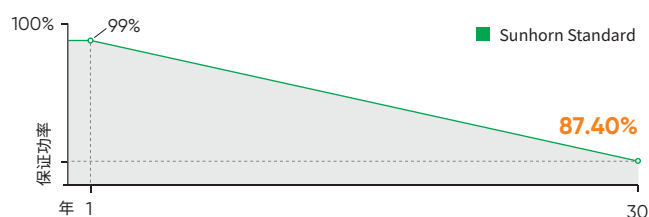
Under outdoor operating conditions, the temperature of half-cut modules is approximately 1.6°C lower than that of conventional full-cell modules.



Low current design reduces packaging losses.

By utilizing the low-current characteristics of half-cut cells, the packaging loss is reduced to within 0.2%.

Power Output Warranty



1% first-year degradation, **0.4%** annual power degradation thereafter.

Quality System & Certifications

IEC61215(2016) / IEC61730(2018)

IEC61701 / IEC62716 / IEC60068

ISO9001:2015 / ISO14001:2015 / ISO45001:2018

*As certification requirements vary by market, please consult the SUNHORN sales department for the appropriate certifications.



NOTE: Please read the safety and installation instructions before using this product.

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Electrical Characteristics (STC)

Maximum Power (Pmax)	570	575	580	585	590
Maximum Power Voltage (Vmp)	43.62	43.83	44.02	44.22	44.43
Maximum Power Current (Imp)	13.07	13.12	13.18	13.23	13.28
Open-circuit Voltage (Voc)	51.52	51.73	51.95	52.17	52.41
Short-circuit Current (Isc)	13.74	13.79	13.84	13.89	13.94
Module Efficiency [%]	22.1	22.3	22.5	22.7	22.8
Measuring tolerance [%]	0~+5%	0~+5%	0~+5%	0~+5%	0~+5%

Measured under Standard Test Conditions (STC): AM1.5, 1000 W/m², cell temperature 25°C.

Electrical Characteristics(NOCT)

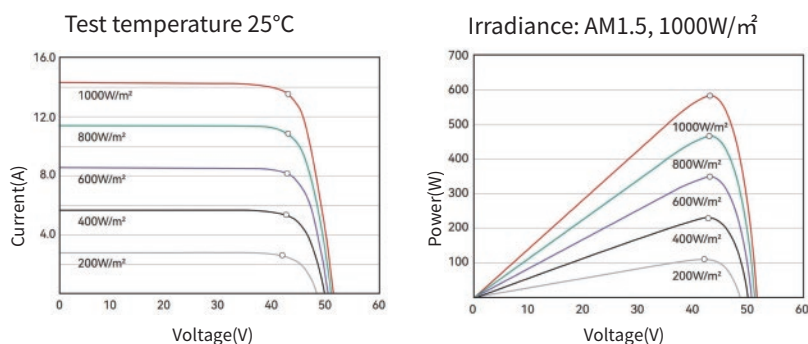
Maximum Power (Pmax)	432	436	440	444	448
Maximum Power Voltage (Vmp)	40.26	40.46	40.66	40.86	41.06
Maximum Power Current (Imp)	10.73	10.78	10.82	10.87	10.92
Open-circuit Voltage (Voc)	48.76	48.96	49.16	49.36	49.56
Short-circuit Current (Isc)	11.32	11.37	11.42	11.47	11.52

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

Mechanical Data

Module Dimensions	2278*1134*30mm
Solar Cells	Monocrystalline (182mm)
No. of Cells	144 [2 x (12 x 6)]
Glass	2.0mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Encapsulant Material	EPE/EVA
J-Box	IP68
Connector	MC4 Compatible
Output Cable	4.0mm ² , 300/300mm
Weight	30.5kg

IV Curve and PV Curve



Operating Data

Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC(IEC)
Maximum Series Fuse Rating	30A
Bifaciality	80 ± 5%

Temperature Ratings

Nominal operating cell temperature	45°C(±2°C)
Temperature Coefficient of Pmax	-0.290%/°C
Temperature Coefficient of Voc	-0.250%/°C
Temperature Coefficient of Isc	+0.040%/°C

Packaging

Pallet Dimensions	2318×1130×1250 mm
Information	36 Pcs per Pallet, 720 Pcs per 40' HC

Structural Diagram(mm)

