



ABC

All Back Contact Technology

23.2%

Maximum Efficiency

15 YEARS

Product Warranty

Hitouch 5A

HN18A-72H

580-600W



Simple and Aesthetic Appearance

Due to the glossy front of the cells, the module embodies a more modern aesthetic.



Higher Power Output

Higher module conversion efficiency benefit from all back contact structure, realizing the maximum utilization of the incident photon.



Long-Term Reliability

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

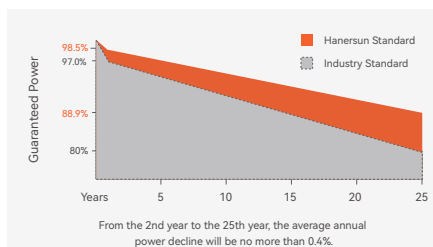
Resistant to harsh environments such as salt, ammonia, sand, high temperature and high humidity areas.



Lower Hot Spot and Crack Risk

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

Power Warranty



15-year product warranty



25-year linear power output warranty

Comprehensive Certificates

IEC 61215-1:2016, IEC 61215-1-1:2016
IEC 61215-2:2016, IEC 61730-1:2016
IEC 61730-2:2016



About Hanersun

Hanersun is a world-leading energy technology company, with a business scope from the R&D and intelligent manufacturing of solar modules, energy storage products, to comprehensive energy solutions.

Electrical Characteristics

Module Type	HN18A-72H580W		HN18A-72H585W		HN18A-72H590W		HN18A-72H595W		HN18A-72H600W	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax)	580	433	585	437	590	441	595	445	600	448
Open-circuit Voltage (Voc)	52.21	49.02	52.36	49.16	52.51	49.30	52.66	49.44	52.81	49.58
Short-circuit Current (Isc)	14.20	11.47	14.27	11.52	14.33	11.57	14.40	11.63	14.46	11.68
Maximum Power Voltage (Vmp)	44.06	40.20	44.21	40.34	44.36	40.48	44.51	40.62	44.66	40.75
Maximum Power Current (Imp)	13.17	10.78	13.24	10.84	13.31	10.90	13.37	10.97	13.44	11.00
Module Efficiency(%)	22.5%		22.6%		22.8%		23.0%		23.2%	

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5.
*Measuring tolerance: 0 ~ +5W

NMOT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

Mechanical Parameters

Solar Cells	Back Contact (182mm)
No. of Cells	144 [2 x (6 x 12)]
Module Dimensions	2278*1134*30mm
Weight	27.2kg
Glass	3.2mm, High Transmission, AR Coated Heat Strengthened Glass
Encapsulant Material	EVA/POE
Backsheet	White
Frame	Anodized Aluminium Alloy
J-Box	IP68
Output Cable	4.0mm ²
(Including Connector)	Length Portrait:+400/-200mm (can be customized)
Connector	MC4 Compatible

Temperature Ratings

NMOT (Nominal operating cell temperature)	45°C(±2°C)
Temperature Coefficient of Pmax	-0.290%/°C
Temperature Coefficient of Voc	-0.230%/°C
Temperature Coefficient of Isc	+0.050%/°C

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

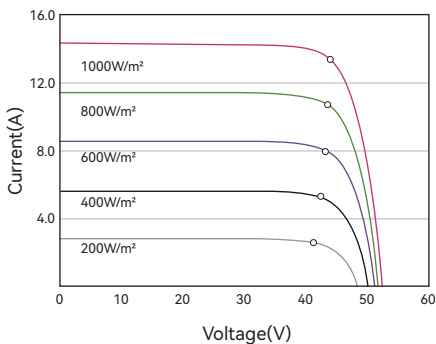
Operating Parameters

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

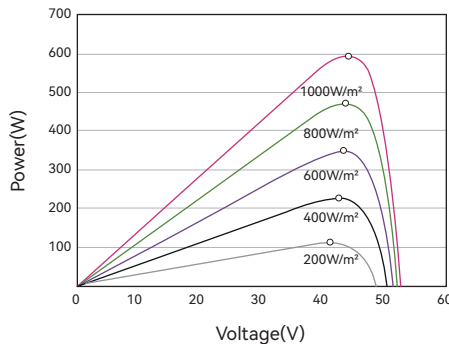
Packaging

Pcs per Pallet: 36
Pcs per 40' HC: 720

I-V Curves of PV Module (590W)



P-V Curves of PV Module (590W)



Dimensions (Unit: mm)

