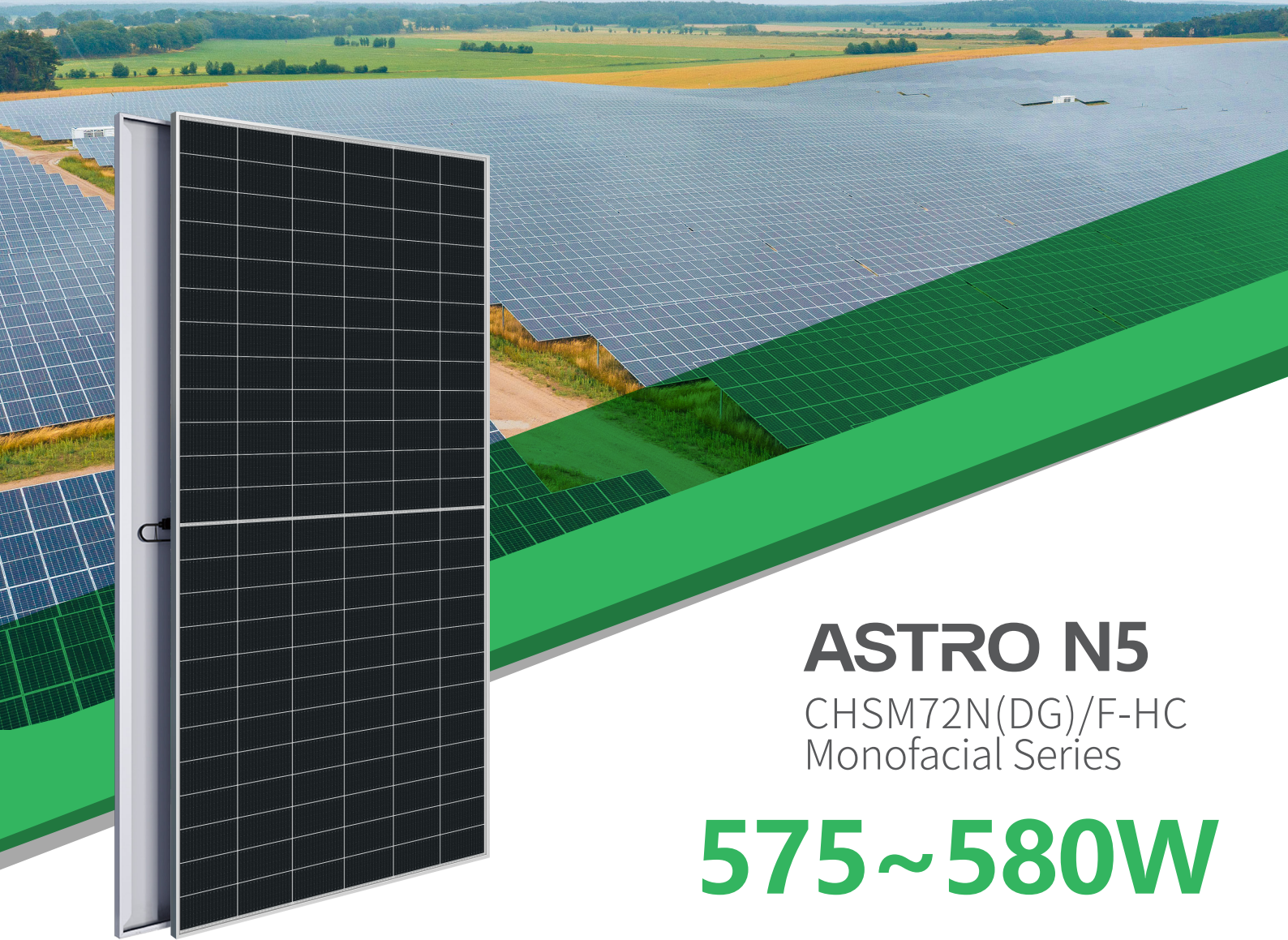




**ASTRONERGY**



# ASTRO N5

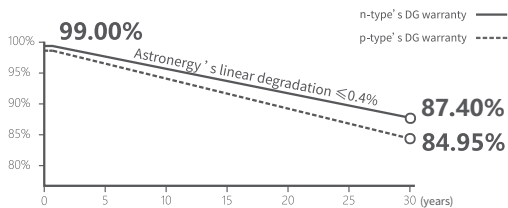
CHSM72N(DG)/F-HC  
Monofacial Series

## 575~580W



### Warranty

- 15** 15-year Product Warranty
- 30** 30-year Linear Power Warranty



#### n-type TOPCon 4.0

Novel upgrade, enhancing module efficiency



#### SMBB Design

Enhancing current collection, minimizing power loss



#### Better Temperature Coefficient

≤ -0.29%/°C, adapting for high temperature



#### Double-layer High-transmittance Glass

Enhancing light transmittance, effectively isolating moisture



**CE** ISO 9001:2015:ISO Quality Management System  
ISO 14001:2015:ISO Environment Management System  
ISO 45001:Occupational Health and Safety



**Tier 1**  
BloombergNEF



**575~580W**

POWER RANGE

**0~+3%**

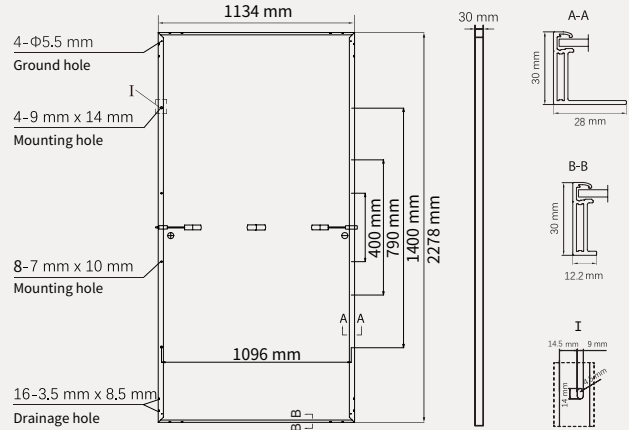
POWER SORTING

**22.5%**MAX MODULE  
EFFICIENCY**≤ 1.0%**FIRST YEAR  
POWER DEGRADATION**≤ 0.4%**YEAR 2-30  
POWER DEGRADATION

## Mechanical Specifications

Outer dimensions (L x W x H)	2278 x 1134 x 30 mm
Cell type	n-type mono-crystalline
No. of cells	144 (6*24)
Frame technology	Aluminum, silver anodized
Front / Back glass	2.0+2.0 mm
Cable length (Including connector)	Portrait: (+)350 mm, (-)250 mm; Customized length
Cable diameter (IEC/UL)	4 mm <sup>2</sup> / 12 AWG
① Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back)
Connector type (IEC/UL)	PV-HCB40 (Chint New Energy) or PV-KST4- EVO2A/xy,PV-KBT4-EVO2A/xy (Stäubli)
Module weight	32.1 kg
Packing unit	36 pcs / box
Weight of packing unit (for 40'HQ container)	1207 kg
Modules per 40' HQ container	720 pcs (Subject to sales contract)

① Refer to Astronergy crystalline installation manual or contact technical department.  
Maximum Mechanical Test Load=1.5×Maximum Mechanical Design Load.



## Electrical Specifications

CHSM72N(DG)/F-HC-XXX(XXX=575-580)

**STC:** Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25° C, AM=1.5

Rated output (P <sub>mpp</sub> / W <sub>p</sub> )	575	580
Rated voltage (V <sub>mpp</sub> / V)	44.30	44.47
Rated current (I <sub>mpp</sub> / A)	12.98	13.04
Open circuit voltage (V <sub>oc</sub> / V)	52.19	52.40
Short circuit current (I <sub>sc</sub> / A)	13.87	13.93
Module efficiency	22.3%	22.5%

Tolerance: P<sub>mpp</sub> ±3%, V<sub>oc</sub> ±3% and I<sub>sc</sub> ±4%.

## Temperature Ratings (STC)

Temperature coefficient (P <sub>mpp</sub> )	-0.29%/°C
Temperature coefficient (I <sub>sc</sub> )	+0.043%/°C
Temperature coefficient (V <sub>oc</sub> )	-0.25%/°C

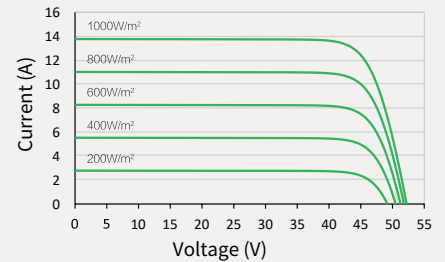
## Operating Parameters

No. of diodes	3
Junction box IP rating	IP 68
Max. series fuse rating	25 A
Max. system voltage (IEC/UL)	1500V <sub>DC</sub>

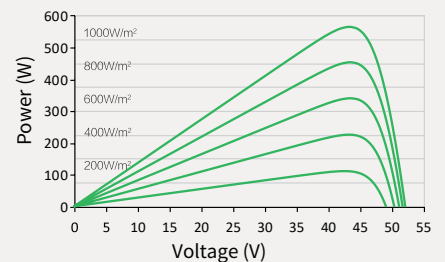
Fire performance: Class A / Class C

## Curve

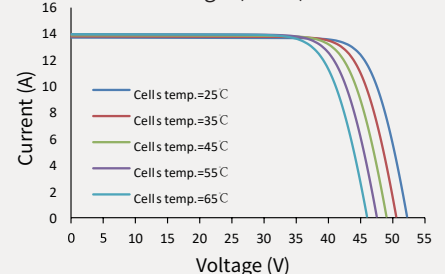
Current-Voltage (580W)



Power-Voltage (580W)



Current-Voltage (580W)



Made in China, Made in Turkey.

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