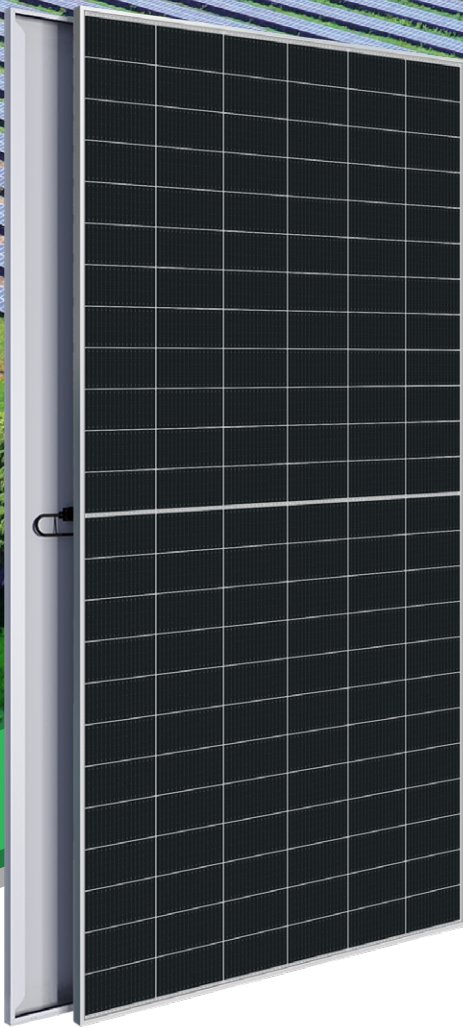




ASTRONERGY



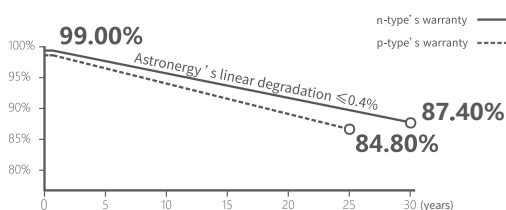
# ASTRO N5

CHSM72N-HC  
Monofacial Series

# 580~585W

## Warranty

- 12** 12-year Product Warranty
- 30** 30-year Linear Power Warranty



## Key Features

- TOPCon / Half-cut
- Better temperature coefficient (Pmpp)
- Non-destructive cutting
- Low BOS cost & LCOE



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



**Tier 1**  
BloombergNEF



**580~585W**

POWER RANGE

**0~+3%**

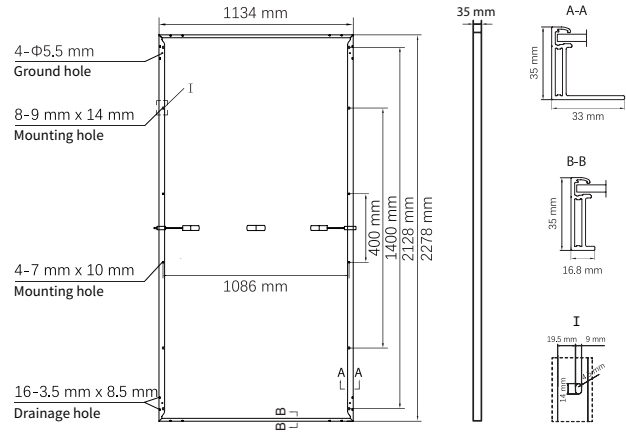
POWER SORTING

**22.6%**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 35 mm
Cell type	n-type mono-crystalline
No. of cells	144 (6*24)
Frame technology	Aluminum, silver anodized
Front glass thickness	3.2 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 (Astronergy) or PV-KST4-EVO2A/ xy, PV-KBT4-EVO2A/xy (Stäubli)
Module weight	26.9 kg
Packing unit	31 pcs / box
Weight of packing unit (for 40'HQ container)	885 kg
Modules per 40' HQ container	620 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-HC-XXX(XXX=580-585)

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

Rated output (Pmpp / Wp)	580	585
Rated voltage (Vmpp / V)	42.63	42.75
Rated current (Impp / A)	13.61	13.68
Open circuit voltage (Voc / V)	51.15	51.30
Short circuit current (Isc / A)	14.30	14.40
Module efficiency	22.5%	22.6%

**NMOT:** Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20° C, AM=1.5, Wind Speed 1m/s

Rated output (Pmpp / Wp)	436.2	439.9
Rated voltage (Vmpp / V)	40.12	40.24
Rated current (Impp / A)	10.87	10.93
Open circuit voltage (Voc / V)	48.59	48.73
Short circuit current (Isc / A)	11.54	11.62

Power tolerance: +/- 3%

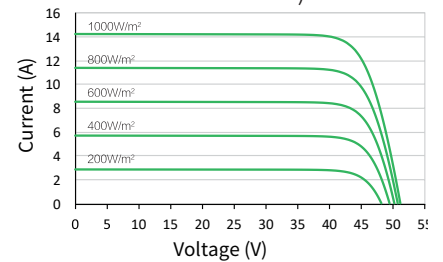
## Temperature Ratings (STC) Operating Parameters

Temperature coefficient (Pmpp)	-0.29%/°C	No. of diodes	3
Temperature coefficient (Isc)	+0.043%/°C	Junction box IP rating	IP 68
Temperature coefficient (Voc)	-0.25%/°C	Max. series fuse rating	25 A
Nominal module operating temperature (NMOT)	41±2°C	Max. system voltage (IEC/UL)	1500V <sub>DC</sub>

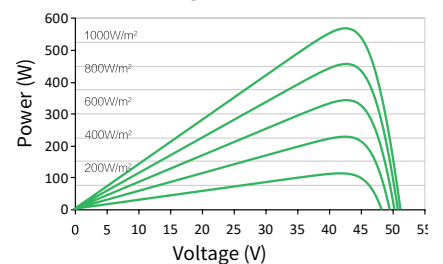
Fire performance: Class C

## Curve

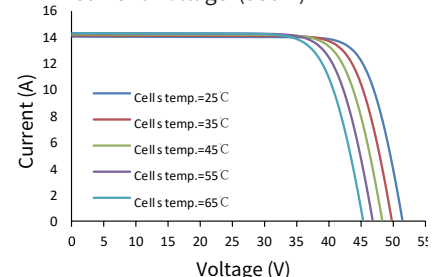
Current-Voltage (580W)



Power-Voltage (580W)



Current-Voltage (580W)



Made in China, Made in Thailand.

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