



ASTRONERGY

Special for Australian Market

# ASTRO N5

Create Sustainable and Efficient Green Energy

## CHSM72N-HC Monofacial Series (182)

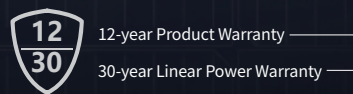
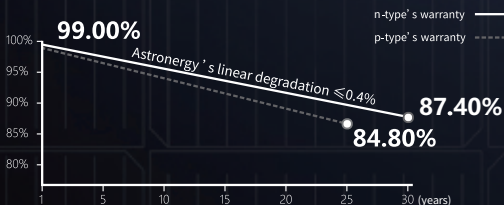
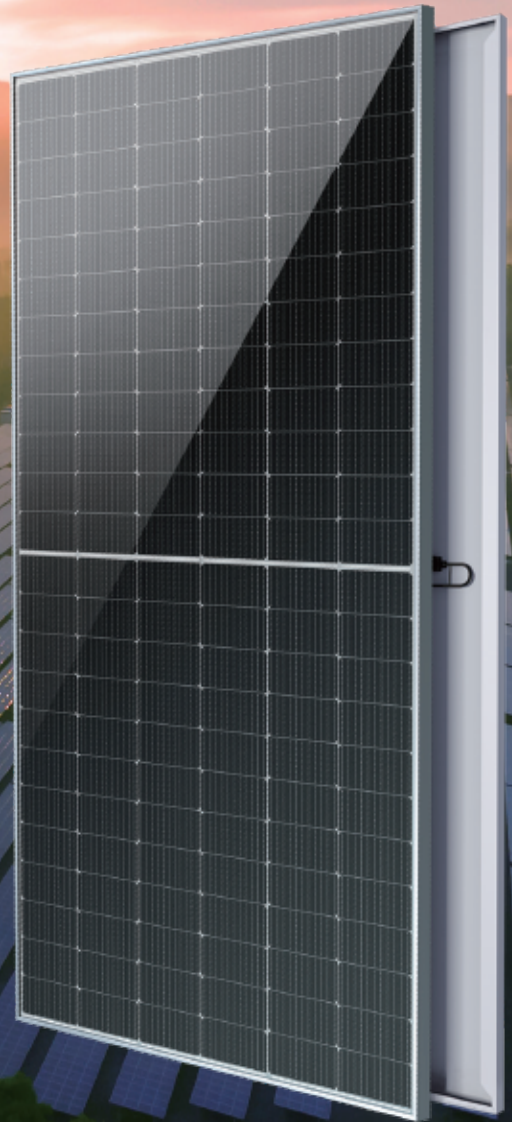
# 550~565W

TOPCon / Half-cut

Low temperature coefficient (Pmpp)

Non-destructive cutting

Low BOS cost & LCOE



ISO 9001:2015:ISO Quality Management System  
 ISO 14001:2015:ISO Environment Management System  
 ISO 45001:Occupational Health and Safety  
 The first solar company which passed the Nord IEC/TS 62941 certification audit.

Tier 1  
BloombergNEF



**550~565W**

POWER RANGE

**0~+5W**

POWER SORTING

**21.9%**MAX MODULE  
EFFICIENCY**≤ 1.0%**FIRST YEAR  
POWER DEGRADATION**≤ 0.4%**YEAR 2-30  
POWER DEGRADATION

## Electrical Specifications

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

Type	CHSM72N-HC-550	CHSM72N-HC-555	CHSM72N-HC-560	CHSM72N-HC-565
Rated output (Pmpp / Wp)	550	555	560	565
Rated voltage (Vmpp / V)	41.88	42.00	42.13	42.25
Rated current (Impp / A)	13.13	13.21	13.29	13.37
Open circuit voltage (Voc / V)	50.25	50.40	50.55	50.70
Short circuit current (Isc / A)	13.70	13.80	13.90	14.00
Module efficiency	21.3%	21.5%	21.7%	21.9%

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

Rated output (Pmpp / Wp)	413.6	417.4	421.1	424.9
Rated voltage (Vmpp / V)	39.41	39.53	39.65	39.77
Rated current (Impp / A)	10.49	10.56	10.62	10.68
Open circuit voltage (Voc / V)	47.73	47.87	48.02	48.16
Short circuit current (Isc / A)	11.06	11.14	11.22	11.30

Power Sorting: 0~+5W Measurement tolerance +/- 3%

## Temperature Ratings (STC)

Temperature coefficient (Pmpp)	-0.30%/°C	No. of diodes	3
Temperature coefficient (Isc)	+0.043%/°C	Junction box IP rating	IP 68
Temperature coefficient (Voc)	-0.24%/°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		

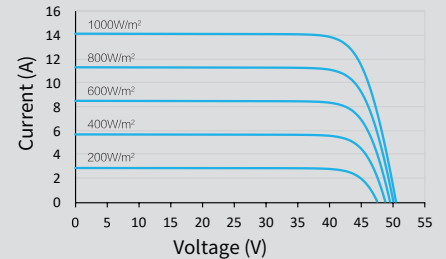
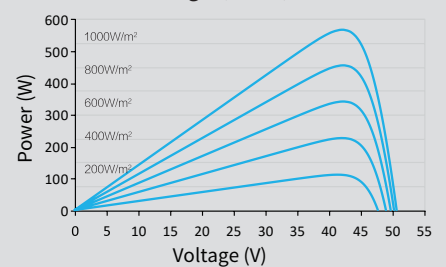
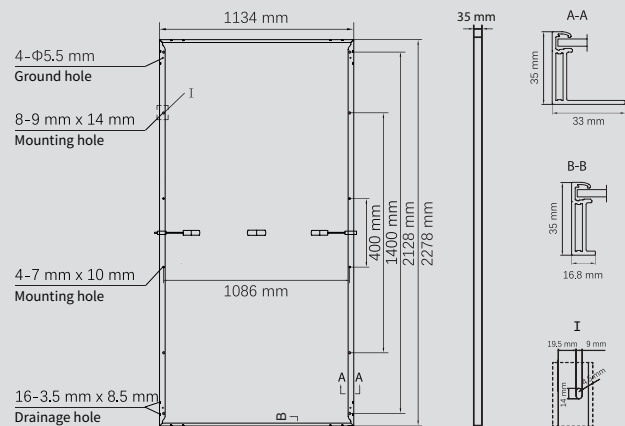
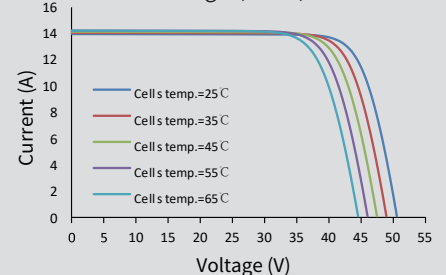
## Operating Parameters

## 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 (Subject to sales contract)
Weight of packing unit (for 40'HQ container)	893 kg
Modules per 40' HQ container	620 pcs

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

## Curve

**Current-Voltage (565W)****Power-Voltage (565W)****Current-Voltage (565W)**

Made in Zhejiang, Jiangsu, Gansu, Jilin and Anhui of China, Made in Thailand.

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