



ASTRONERGY
A CHNT COMPANY

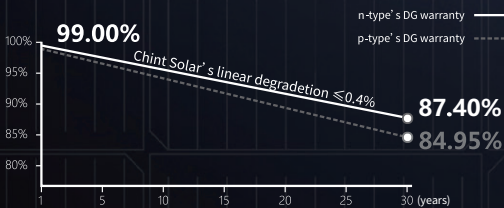
ASTRO N5

Create Sustainable and Efficient Green Energy

CHSM72N(DG)/F-BH
Bifacial Series (182)

550~565W

- TOPCon / Multi-busbar / Half-cut
- Non-destructive cutting
- PID resistance
- Bifacial gain
- Lower BOS cost & LCOE



12-year Product Warranty
30-year Linear Power Warranty



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 TOLERANCE

21.9%

MAX MODULE EFFICIENCY

≤ 1.0%

FIRST YEAR POWER DEGRADATION

≤ 0.4%

YEAR 2-30 POWER DEGRADATION

Electrical Specifications

STC: Irradiance 1000W/m², Cell Temperature 25° C, AM=1.5

Rated output (Pmpp / Wp)	550	555	560	565
Rated voltage (Vmpp / V)	42.10	42.27	42.44	42.61
Rated current (Impp / A)	13.06	13.13	13.20	13.26
Open circuit voltage (Voc / V)	50.10	50.30	50.50	50.70
Short circuit current (Isc / A)	13.76	13.84	13.93	14.02
Module efficiency	21.3%	21.5%	21.7%	21.9%

NMOT: Irradiance 800W/m², 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)	39.63	39.79	39.94	40.10
Rated current (Impp / A)	10.44	10.49	10.54	10.60
Open circuit voltage (Voc / V)	47.59	47.78	47.97	48.16
Short circuit current (Isc / A)	11.11	11.18	11.25	11.32

Electrical Specifications (Integrated power)

Pmpp gain	Pmpp / Wp	Vmpp / V	Impp / A	Voc / V	Isc / A
5%	588	42.39	13.87	50.45	14.64
10%	616	42.39	14.53	50.45	15.34
15%	644	42.40	15.19	50.46	16.03
20%	672	42.40	15.85	50.46	16.73
25%	700	42.40	16.51	50.46	17.43

Electrical characteristics with different rear power gain (reference to 560W)

Temperature Ratings (STC)

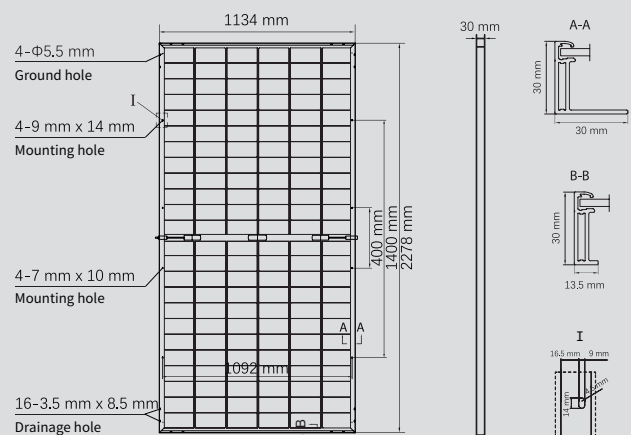
Temperature coefficient (Pmpp)	-0.30%/°C	No. of diodes	3
Temperature coefficient (Isc)	+0.043%/°C	Junction box IP rating	IP 68
Temperature coefficient (Voc)	-0.24%/°C	Max. series fuse rating	30 A
Nominal module operating temperature (NMOT)	41±2°C	Max. system voltage (IEC/UL)	1500V _{DC}

Operating Parameters

Mechanical Specifications

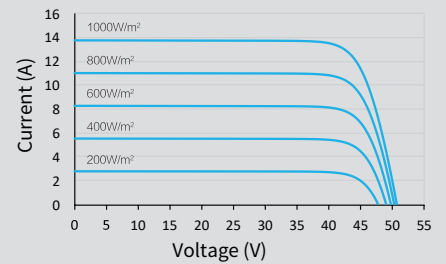
Outer dimensions (L x W x H)	2278 x 1134 x 30 mm
Cell Type	n-type Mono-crystalline
No. of cells	144 (6*24)
Frame technology	Aluminum, silver anodized
Front glass thickness	2.0+2.0 mm
Cable length (IEC/UL)	Portrait: 300 mm; Landscape: 1400 mm
Cable diameter (IEC/UL)	4 mm ² / 12 AWG
① Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back)
Connector type (IEC/UL)	HCB40 / MC4-EVO2 (optional)
Module weight	32.1 kg
Packing unit	36 pcs / box (Subject to sales contract)
Weight of packing unit (for 40' HQ container)	1215 kg
Modules per 40' HQ container	720 pcs

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

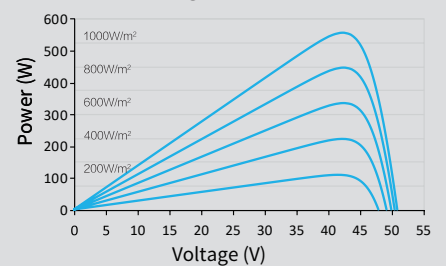


Curve

Current-Voltage (560W)



Power-Voltage (560W)



Current-Voltage (560W)

