



ASTRONERGY
A CHNT COMPANY

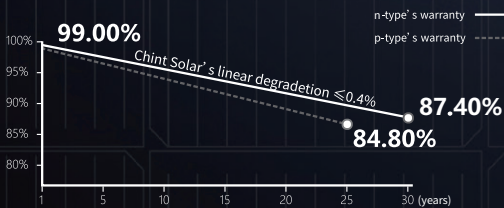
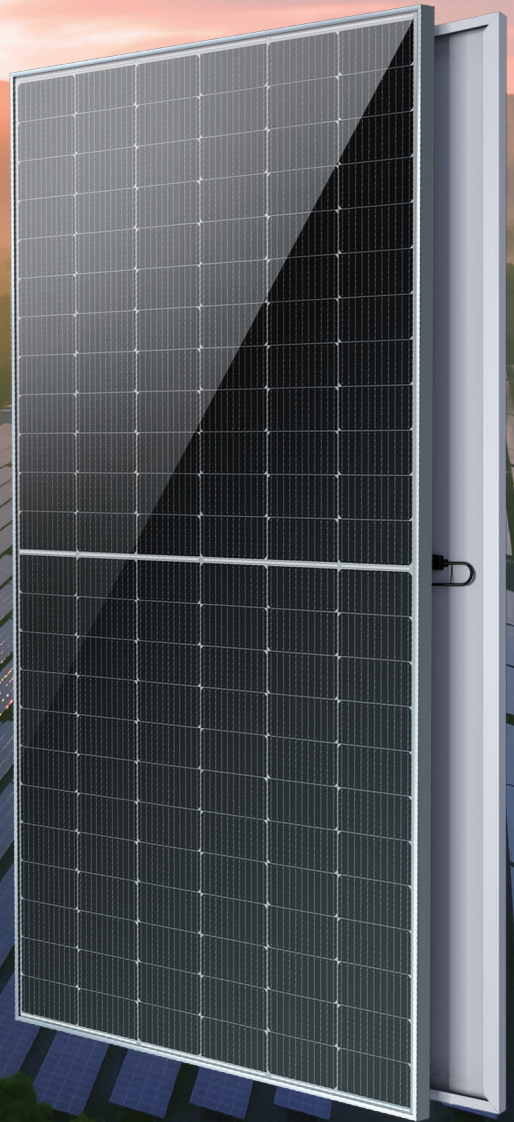
ASTRO N5

Create Sustainable and Efficient Green Energy

CHSM72N-HC
Monofacial Series (182)

555~570W

- TOPCon / Multi-busbar / Half-cut
- Non-destructive cutting
- PID resistance
- 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



555~570W

POWER RANGE

0~+5W

POWER TOLERANCE

22.1%

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 (P _{mpp} / W _p)	555	560	565	570
Rated voltage (V _{mpp} / V)	41.75	41.92	42.08	42.25
Rated current (I _{mpp} / A)	13.29	13.36	13.43	13.49
Open circuit voltage (V _{oc} / V)	50.10	50.30	50.50	50.70
Short circuit current (I _{sc} / A)	13.88	13.97	14.06	14.14
Module efficiency	21.5%	21.7%	21.9%	22.1%

NMOT: Irradiance 800W/m², Ambient Temperature 20° C, AM=1.5, Wind Speed 1m/s

Rated output (P _{mpp} / W _p)	417.4	421.1	424.9	428.6
Rated voltage (V _{mpp} / V)	39.30	39.45	39.61	39.77
Rated current (I _{mpp} / A)	10.62	10.67	10.73	10.78
Open circuit voltage (V _{oc} / V)	47.59	47.78	47.97	48.16
Short circuit current (I _{sc} / A)	11.21	11.28	11.35	11.42

Temperature Ratings (STC)

Temperature coefficient (P _{mpp})	-0.30%/°C	No. of diodes	3
Temperature coefficient (I _{sc})	+0.043%/°C	Junction box IP rating	IP 68
Temperature coefficient (V _{oc})	-0.24%/°C	Max. series fuse rating	25 A
Nominal module operating temperature (NMOT)	41±2°C	Max. system voltage (IEC/UL)	1500V _{DC}

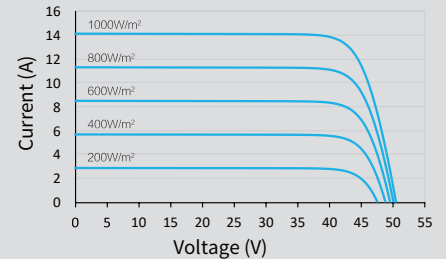
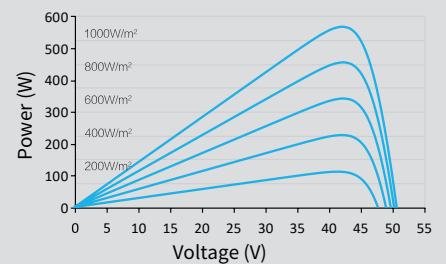
Operating Parameters

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	3.2 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	26.6 kg
Packing unit	36 pcs / box (Subject to sales contract)
Weight of packing unit (for 40' HQ container)	1017 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 (565W)**Power-Voltage (565W)****Current-Voltage (565W)**