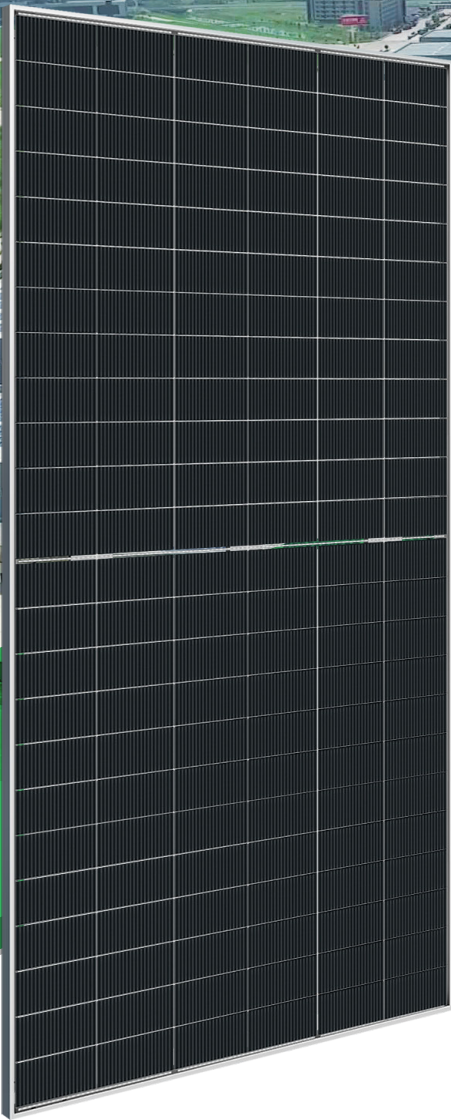




ASTRONERGY



ASTRO N5

CHSM72N(DG)/F-BH
Bifacial Series

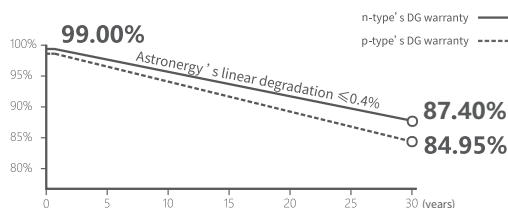
570~600W



Warranty

15 15-year Product Warranty

30 30-year Linear Power Warranty



n-type TOPCon 4.0

Novel upgrade, enhancing module efficiency



ZBB Design

Zero-busbar integrated interconnection



Better Temperature Coefficient

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



Bifacial Power Generation

Maximizing bifaciality, boosting backside power output



IEC 61215, IEC 61730
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



570~600W

POWER RANGE

0~+3%

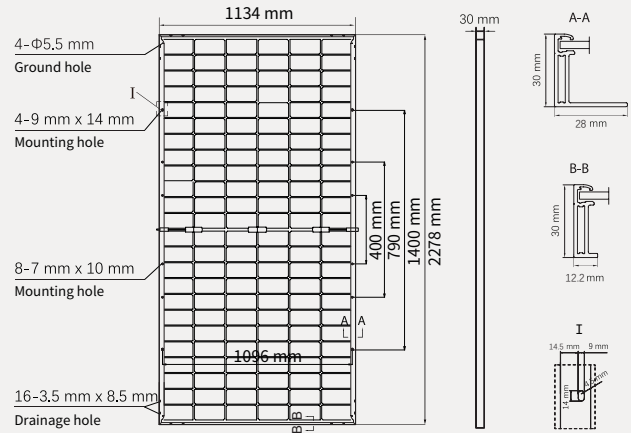
POWER SORTING

23.2%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 ² / 12 AWG
① Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back)
Connector type (IEC/UL)	HCB40 (Standard) / MC4-EVO2A (Optional)
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

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

Rated output (Pmpp / Wp)	570	575	580	585	590	595	600
Rated voltage (Vmpp / V)	43.34	43.52	43.70	43.88	44.05	44.21	44.38
Rated current (Impp / A)	13.15	13.21	13.27	13.33	13.40	13.46	13.52
Open circuit voltage (Voc / V)	51.80	52.01	52.21	52.42	52.62	52.81	53.01
Short circuit current (Isc / A)	13.88	13.95	14.01	14.07	14.13	14.20	14.26
Module efficiency	22.1%	22.3%	22.5%	22.6%	22.8%	23.0%	23.2%

BNPI: Irradiance: front 1000W/m², rear 135W/m², Cell Temperature 25° C, AM=1.5

Rated output (Pmpp / Wp)	625	630	635	640	645	650	655
Rated voltage (Vmpp / V)	43.46	43.62	43.79	43.96	44.11	44.26	44.40
Rated current (Impp / A)	14.38	14.44	14.50	14.56	14.62	14.69	14.75
Open circuit voltage (Voc / V)	52.00	52.19	52.39	52.58	52.75	52.93	53.10
Short circuit current (Isc / A)	15.25	15.31	15.37	15.43	15.49	15.56	15.63

Temperature Ratings (STC)

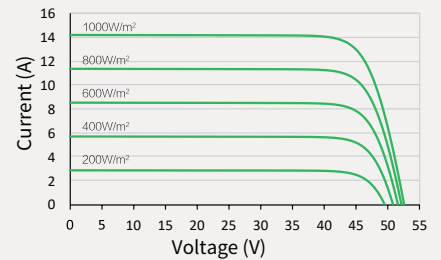
Temperature coefficient (Pmpp)	-0.29%/°C
Temperature coefficient (Isc)	+0.043%/°C
Temperature coefficient (Voc)	-0.25%/°C

Operating Parameters

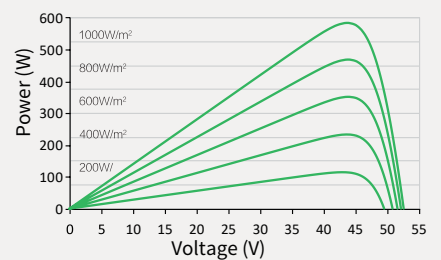
Bifaciality (Pmpp)	80±5%
Junction box IP rating	IP 68
Max. series fuse rating	30 A
Max. system voltage (IEC/UL)	1500V _{DC}

Curve

Current-Voltage (590W)



Power-Voltage (590W)



Current-Voltage (590W)

