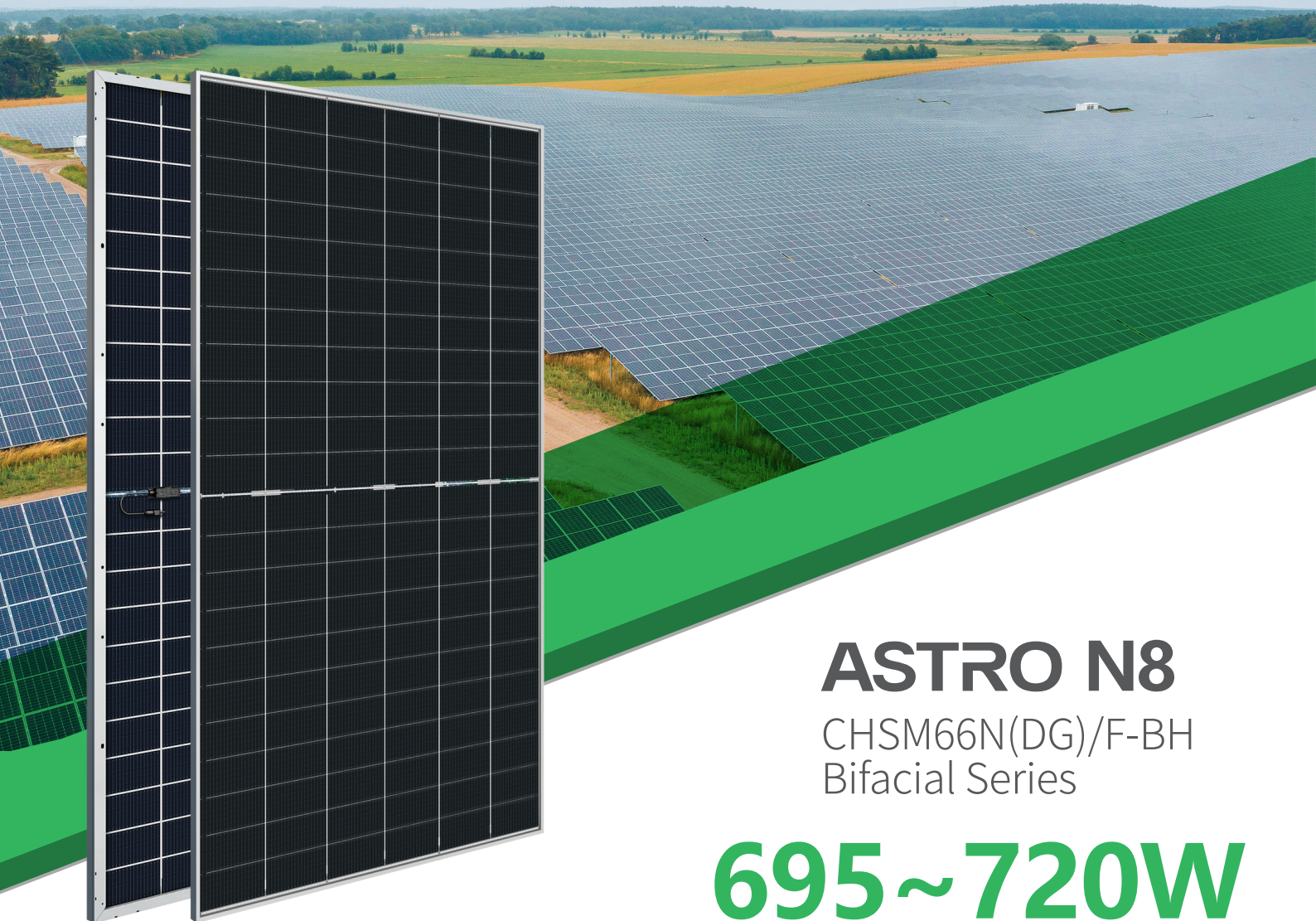




ASTRONERGY



ASTRO N8

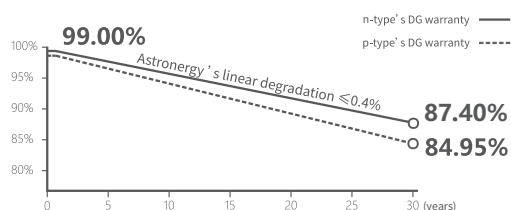
CHSM66N(DG)/F-BH
Bifacial Series

695~720W



Warranty

- 15** 15-year Product Warranty
- 30** 30-year Linear Power Warranty



- TOPCon 4.0**
n-type TOPCon 4.0
Novel upgrade, enhancing module efficiency
- SMBB Design**
Enhancing current collection, minimizing power loss
- High power, high efficiency**
210 silicon wafers, improving product power and efficiency
- 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



695~720W

POWER RANGE

0~+3%

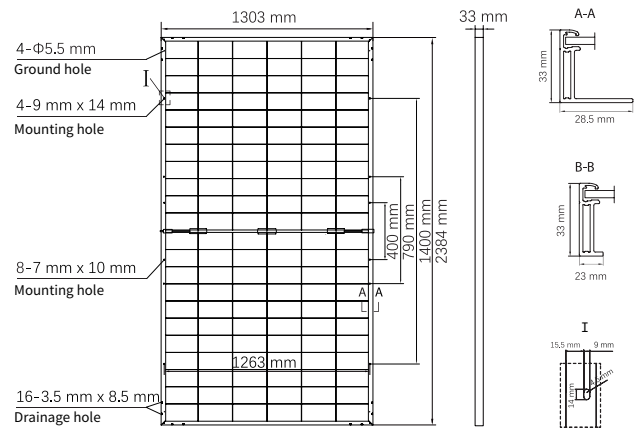
POWER SORTING

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)	2384 x 1303 x 33 mm
Cell type	n-type mono-crystalline
No. of cells	132 (6*22)
Frame technology	Aluminum, silver anodized
Front / Back glass	2.0+2.0 mm
Cable length (Including connector)	Portrait: (+)410 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	38 kg
Packing unit	33 pcs / box
Weight of packing unit (for 40'HQ container)	1295 kg
Modules per 40' HQ container	594 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

	695	700	705	710	715	720
Rated output (Pmpp / Wp)	695	700	705	710	715	720
Rated voltage (Vmpp / V)	39.98	40.15	40.31	40.48	40.65	40.81
Rated current (Impp / A)	17.38	17.44	17.49	17.54	17.59	17.64
Open circuit voltage (Voc / V)	48.17	48.37	48.57	48.77	48.97	49.17
Short circuit current (Isc / A)	18.33	18.38	18.43	18.48	18.53	18.58
Module efficiency	22.4%	22.5%	22.7%	22.9%	23.0%	23.2%

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

	524.0	527.8	531.6	535.3	539.1	542.9
Rated output (Pmpp / Wp)	524.0	527.8	531.6	535.3	539.1	542.9
Rated voltage (Vmpp / V)	38.18	38.33	38.49	38.65	38.81	38.97
Rated current (Impp / A)	13.73	13.77	13.81	13.85	13.89	13.93
Open circuit voltage (Voc / V)	45.75	45.94	46.13	46.32	46.51	46.70
Short circuit current (Isc / A)	14.76	14.80	14.84	14.88	14.92	14.96

Electrical Specifications (Integrated power)

Pmpp gain	Pmpp / Wp	Vmpp / V	Impp / A	Voc / V	Isc / A
5%	735	40.15	18.31	48.37	19.30
10%	770	40.15	19.18	48.37	20.22
15%	805	40.16	20.05	48.38	21.14
20%	840	40.16	20.92	48.38	22.06
25%	875	40.17	21.78	48.39	22.98

Electrical characteristics with different rear power gain (reference to 700W)

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	35 A
Nominal module operating temperature (NMOT)	41±2°C	Max. system voltage (IEC/UL)	1500V _{DC}

Curve

