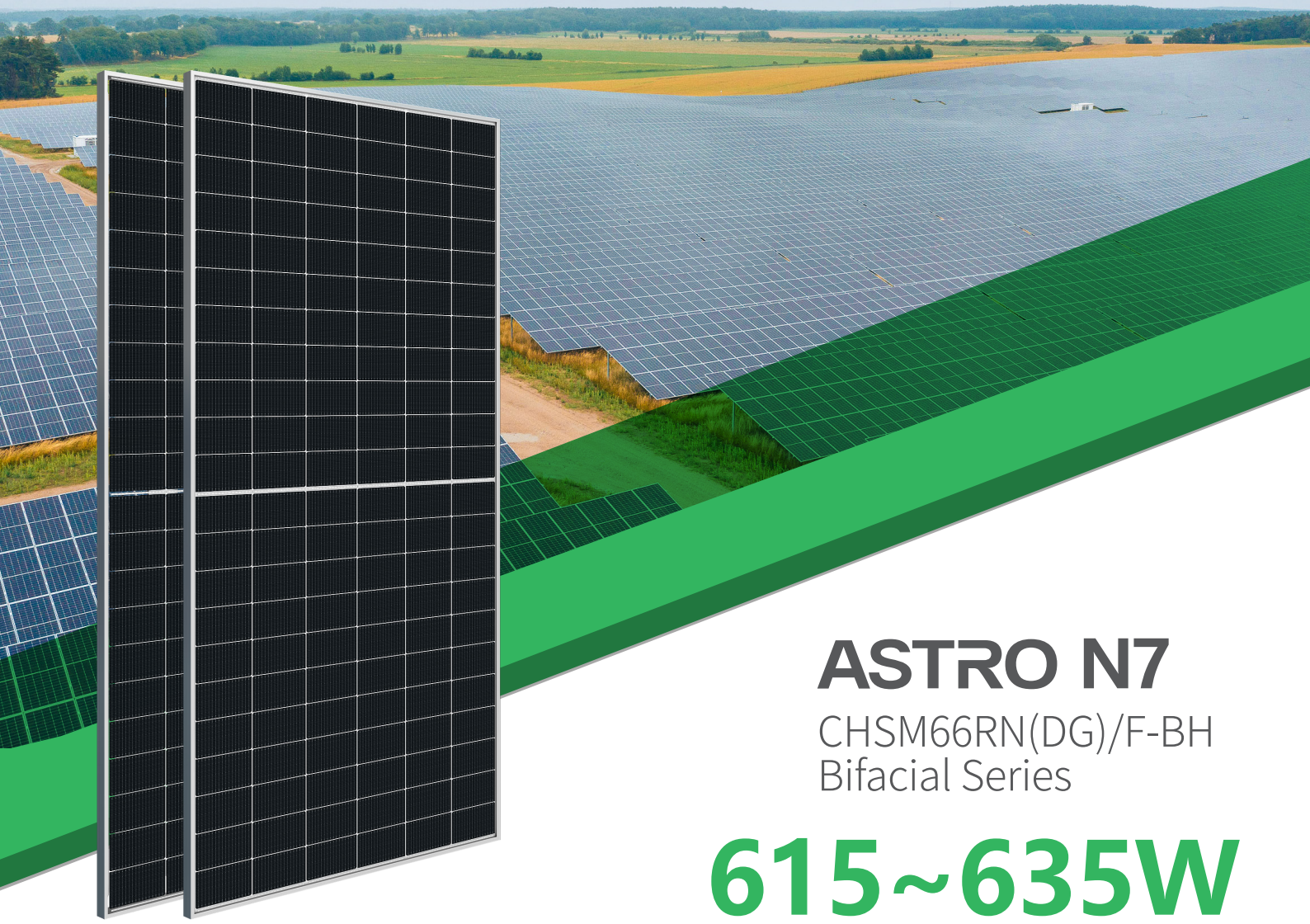
ASTRONERGY



ASTRO N7

CHSM66RN(DG)/F-BH
Bifacial Series

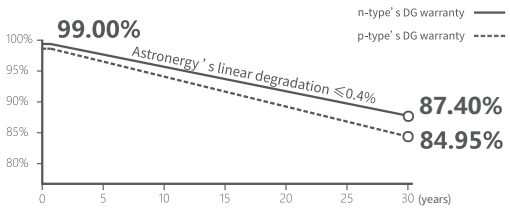
615~635W

Assist carbon neutrality

Warranty

15 15-year Product Warranty

30 30-year Linear Power Warranty



n-type TOPCon 4.0/5.0
Cutting-edge cell tech, ultra-high product energy efficiency

SMBB Design
Enhancing current collection, minimizing power loss

Low Voc Design
Increasing modules per string, lower BOS cost

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

TOP PERFORMER 2026 kiwa PV MODULE RELIABILITY SCORECARD

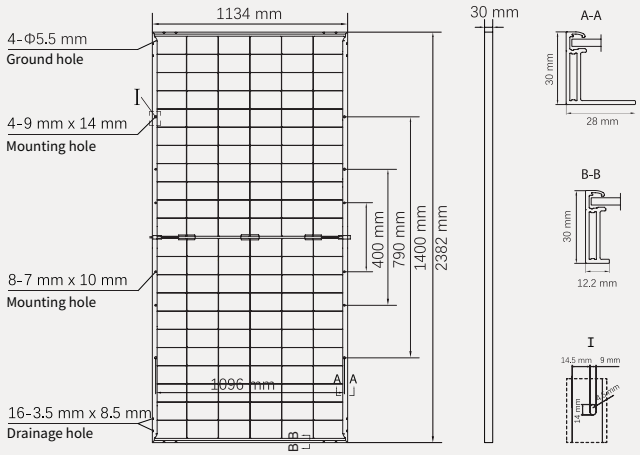
Tier 1 BloombergNEF

Underwritten by International Insurer

615~635W	0~+3%	23.5%	≤ 1.0%	≤ 0.4%
POWER RANGE	POWER SORTING	MAX MODULE EFFICIENCY	FIRST YEAR POWER DEGRADATION	YEAR 2-30 POWER DEGRADATION

Mechanical Specifications

Outer dimensions (L x W x H)	2382 x 1134 x 30 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: (+)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	31.65 kg
Packing unit	36 pcs / box
Weight of packing unit (for 40'HQ container)	1190 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/m^2, Cell Temperature 25° C, AM=1.5, Power measurement tolerance: ±3%

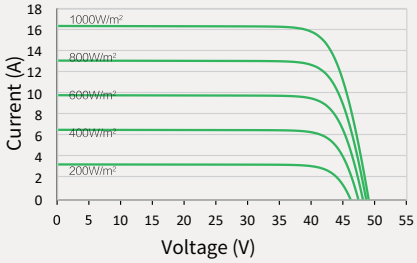
Rated output (Pmpp / Wp)	615	620	625	630	635
Rated voltage (Vmpp / V)	41.43	41.56	41.69	41.82	41.86
Rated current (Impp / A)	14.84	14.92	14.99	15.07	15.17
Open circuit voltage (Voc / V)	48.89	49.04	49.19	49.34	49.42
Short circuit current (Isc / A)	16.02	16.11	16.19	16.27	16.35
Module efficiency	22.8%	23.0%	23.1%	23.3%	23.5%

BNPI: Irradiance: front 1000W/m^2, rear 135W/m^2, Cell Temperature 25° C, AM=1.5

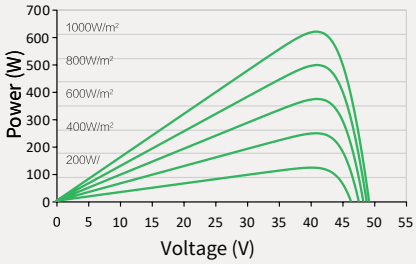
Rated output (Pmpp / Wp)	678.1	683.6	689.1	694.6	702.3
Rated voltage (Vmpp / V)	41.44	41.57	41.70	41.83	41.87
Rated current (Impp / A)	16.36	16.44	16.52	16.60	16.77
Open circuit voltage (Voc / V)	48.90	49.05	49.20	49.35	49.43
Short circuit current (Isc / A)	17.73	17.81	17.90	17.99	18.13

Curve

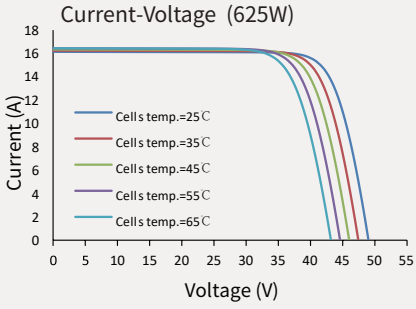
Current-Voltage (625W)



Power-Voltage (625W)



Current-Voltage (625W)



Temperature Ratings (STC)

Temperature coefficient (Pmpp)	-0.29%/°C
Temperature coefficient (Isc)	+0.045%/°C
Temperature coefficient (Voc)	-0.25%/°C

Operating Parameters

Operating Temperature	-40°C ~+85°C
Bifaciality (Pmpp)	80±5%
Junction box IP rating	IP 68
Max. series fuse rating	35 A
Max. system voltage (IEC/UL)	1500V_{DC}

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