Preliminary

ASTRONERGY

ASTRO N7 Pro

CHSM66RN(DG)/F-BQ
Bifacial Series

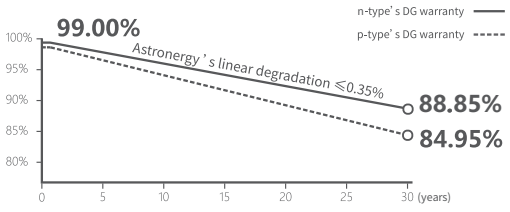
645~670W

Assist carbon neutrality

Warranty

15 15-year Product Warranty

30 30-year Linear Power Warranty



n-type TOPCon 5.0+
Newly upgraded technology, achieving ultra-high energy efficiency

Multi-cut Cell Design
Smaller electric current, lower power loss and hot-spot risk

Better Temperature Coefficient
⩽ -0.26%/°C , adapting for high temperature

Anti-Dust Design
Anti-dust frame reduces dust buildup, increasing power generation

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

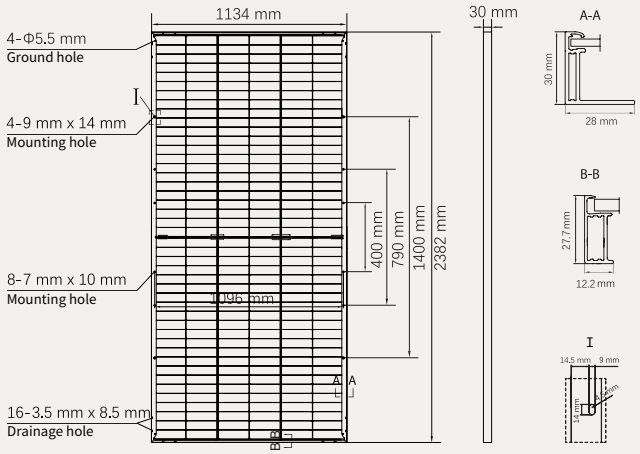
Underwritten by International Insurer

645~670W	0~+3%	24.8%	≤ 1%	≤ 0.35%
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	264 (6*44)
Frame technology	Aluminum, silver anodized
Front / Back glass	2.0+2.0 mm
Cable length (Including connector)	Portrait: (+)530 mm,(-)430 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 kg
Packing unit	36 pcs / box
Weight of packing unit (for 40'HQ container)	1203 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%

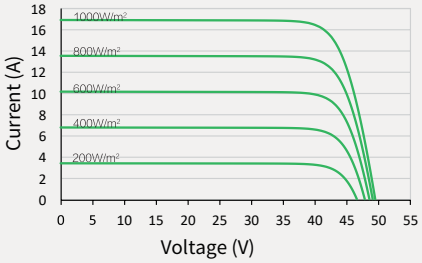
Rated output (Pmpp / Wp)	645	650	655	660	665	670
Rated voltage (Vmpp / V)	41.02	41.14	41.27	41.40	41.52	41.65
Rated current (Impp / A)	15.73	15.80	15.87	15.94	16.02	16.09
Open circuit voltage (Voc / V)	48.83	48.98	49.13	49.28	49.43	49.58
Short circuit current (Isc / A)	16.50	16.58	16.65	16.72	16.80	16.87
Module efficiency	23.9%	24.1%	24.2%	24.4%	24.6%	24.8%

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

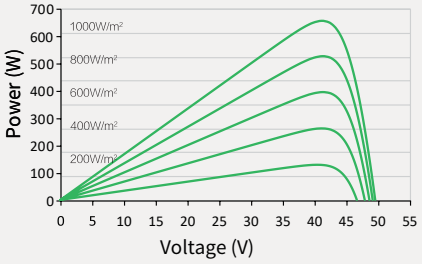
Rated output (Pmpp / Wp)	717.9	723.5	729.0	734.6	740.1	745.7
Rated voltage (Vmpp / V)	41.13	41.26	41.38	41.51	41.64	41.76
Rated current (Impp / A)	17.45	17.53	17.62	17.70	17.78	17.86
Open circuit voltage (Voc / V)	48.97	49.12	49.27	49.42	49.57	49.72
Short circuit current (Isc / A)	18.34	18.42	18.50	18.59	18.67	18.75

Curve

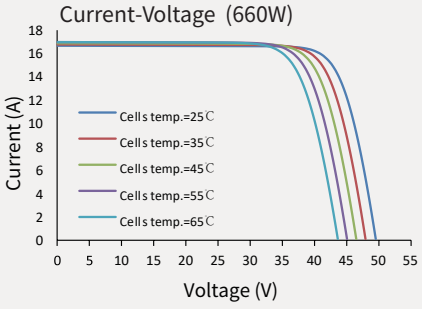
Current-Voltage (660W)



Power-Voltage (660W)



Current-Voltage (660W)



Temperature Ratings (STC)

Temperature coefficient (Pmpp)	-0.26%/°C
Temperature coefficient (Isc)	+0.042%/°C
Temperature coefficient (Voc)	-0.23%/°C

Operating Parameters

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

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