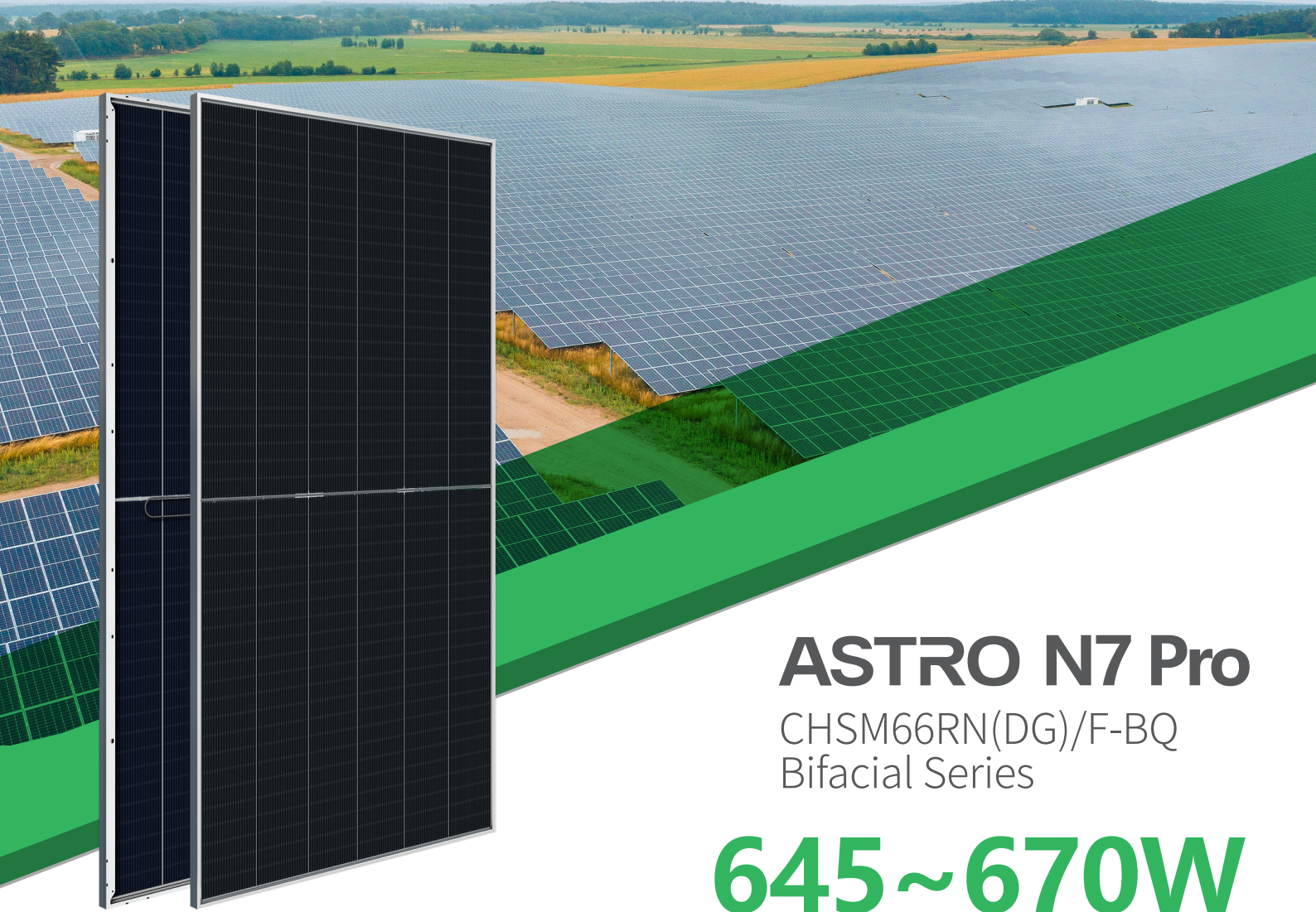




ASTRONERGY



ASTRO N7 Pro

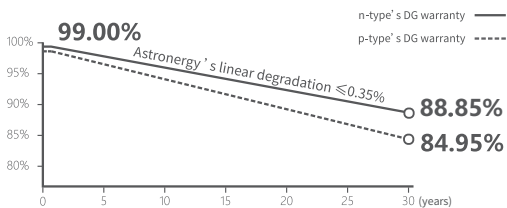
CHSM66RN(DG)/F-BQ
Bifacial Series

645~670W



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



Higher Bifacial Power Gain

85±5% bifaciality, boosting backside power output



Lower Power Degradation

≤ 0.35% annual degradation, 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



Tier 1
BloombergNEF



645~670W

POWER RANGE

0~+3%

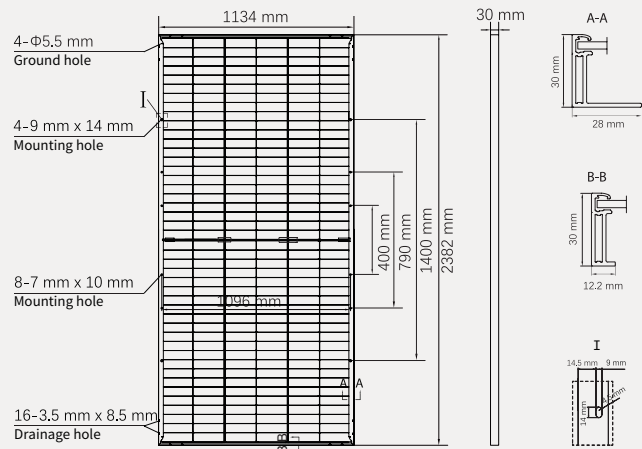
POWER SORTING

24.8%MAX MODULE
EFFICIENCY**≤ 1%**FIRST YEAR
POWER DEGRADATION**≤ 0.35%**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/m², Cell Temperature 25° C, AM=1.5, Power measurement tolerance: ±3%

	645	650	655	660	665	670
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/m², rear 135W/m², Cell Temperature 25° C, AM=1.5

	717.9	723.5	729.0	734.6	740.1	745.7
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

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}

Curve

