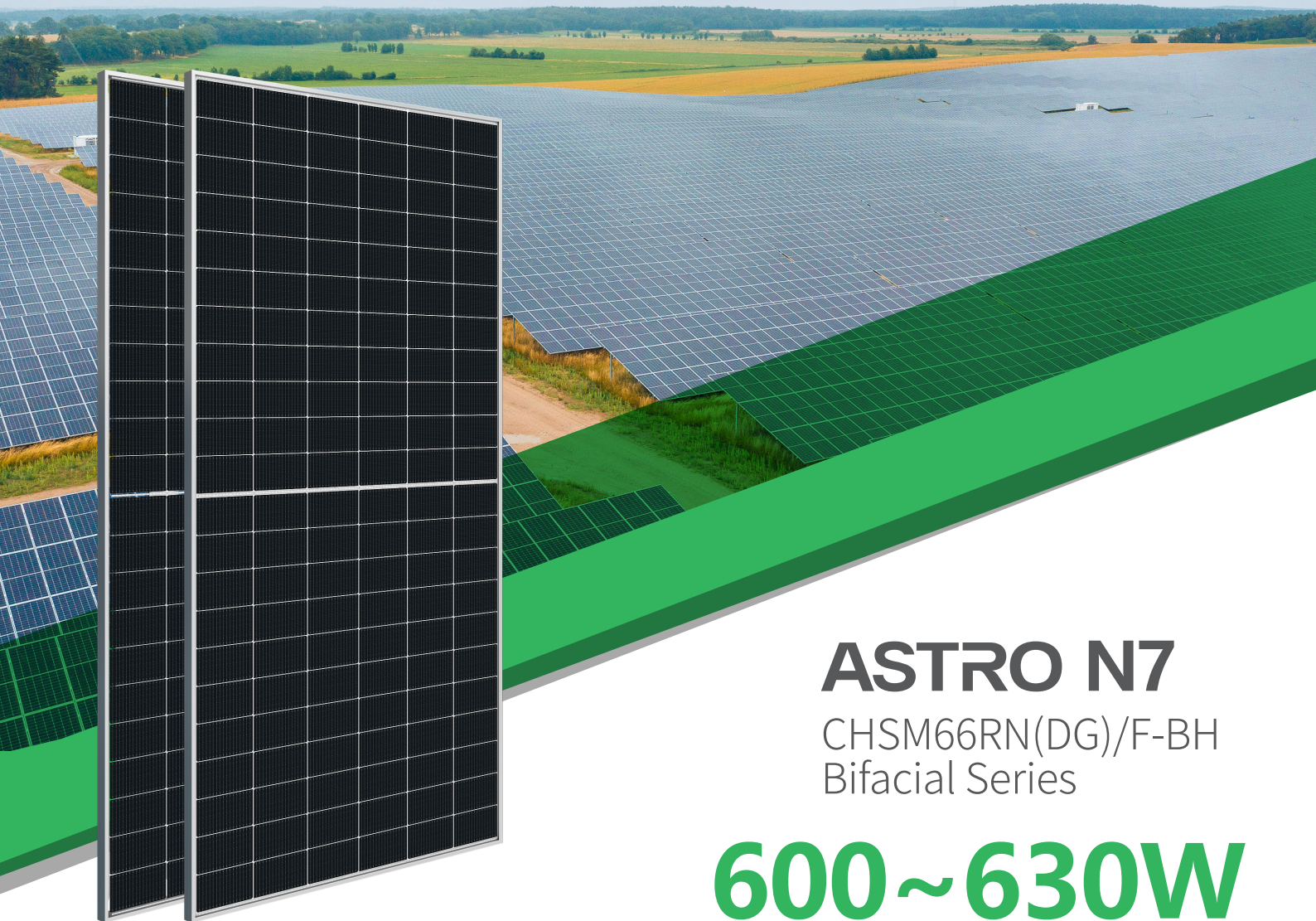




ASTRONERGY



ASTRO N7

CHSM66RN(DG)/F-BH
Bifacial Series

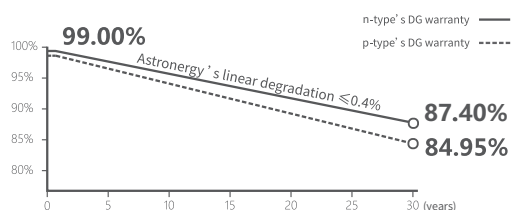
600~630W



Warranty

15 15-year Product Warranty

30 30-year Linear Power Warranty
(Only to the front-side of modules)



n-type TOPCon 4.0

Novel upgrade, enhancing module 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



ISO 9001:2015:ISO Quality Management System
ISO 14001:2015:ISO Environment Management System
ISO 45001:Occupational Health and Safety



Tier 1
BloombergNEF



600~630W

POWER RANGE

0~+3%

POWER SORTING

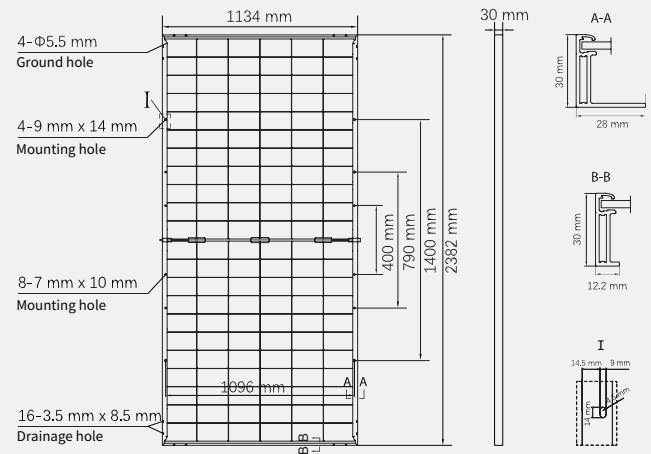
23.3%

MAX MODULE
EFFICIENCY $\leq 1.0\%$ FIRST YEAR
POWER DEGRADATION $\leq 0.4\%$ 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)	PV-HCB40 (Chint New Energy) or PV-KST4-EVO2A/xy, PV-KBT4-EVO2A/xy (Stäubli)
Module weight	32.8 kg
Packing unit	36 pcs / box
Weight of packing unit (for 40'HQ container)	1231 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 CHSM66RN(DG)/F-BH-XXX(XXX=600~630)

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

Rated output (P _{mpp} / Wp)	600	605	610	615	620	625	630
Rated voltage (V _{mpp} / V)	41.05	41.18	41.31	41.43	41.56	41.69	41.82
Rated current (I _{mpp} / A)	14.62	14.69	14.77	14.84	14.92	14.99	15.07
Open circuit voltage (V _{oc} / V)	48.44	48.59	48.74	48.89	49.04	49.19	49.34
Short circuit current (I _{sc} / A)	15.78	15.86	15.94	16.02	16.11	16.19	16.27
Module efficiency	22.2%	22.4%	22.6%	22.8%	23.0%	23.1%	23.3%

Tolerance: P_{mpp} ±3%, V_{oc} ±3% and I_{sc} ±4%.

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

Rated output (P _{mpp} / Wp)	660	665	670	675	680	685	690
Rated voltage (V _{mpp} / V)	40.87	41.00	41.13	41.25	41.37	41.49	41.61
Rated current (I _{mpp} / A)	16.15	16.22	16.29	16.36	16.44	16.51	16.58
Open circuit voltage (V _{oc} / V)	48.64	48.79	48.94	49.09	49.14	49.19	49.24
Short circuit current (I _{sc} / A)	17.37	17.45	17.53	17.61	17.72	17.83	17.94

Bifaciality(P_{mpp}/I_{sc}) : 80±5 %, Bifaciality(V_{oc}) : 98±2 % .

Electrical characteristics with 10% Bifacial Gains

Rated output (P _{mpp} / Wp)	660	666	671	677	682	688	693
Rated voltage (V _{mpp} / V)	41.05	41.18	41.31	41.43	41.56	41.69	41.82
Rated current (I _{mpp} / A)	16.08	16.16	16.24	16.33	16.41	16.49	16.57
Open circuit voltage (V _{oc} / V)	48.44	48.59	48.74	48.89	49.04	49.19	49.34
Short circuit current (I _{sc} / A)	17.36	17.45	17.54	17.63	17.72	17.81	17.90

Operating Parameters

No. of diodes	3
Junction box IP rating	IP 68
Max. series fuse rating	35 A
Max. system voltage (IEC/UL)	1500V _{DC}

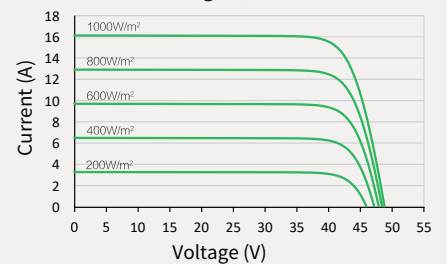
Fire performance: Class A / Class C

Temperature Ratings (STC)

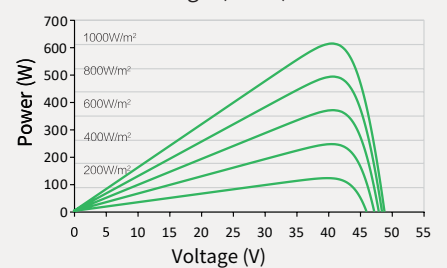
Temperature coefficient (P _{mpp})	-0.29%/°C
Temperature coefficient (I _{sc})	+0.043%/°C
Temperature coefficient (V _{oc})	-0.25%/°C

Curve

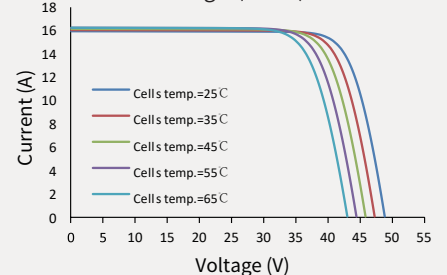
Current-Voltage (615W)



Power-Voltage (615W)



Current-Voltage (615W)



Made in China, Made in Turkey.

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