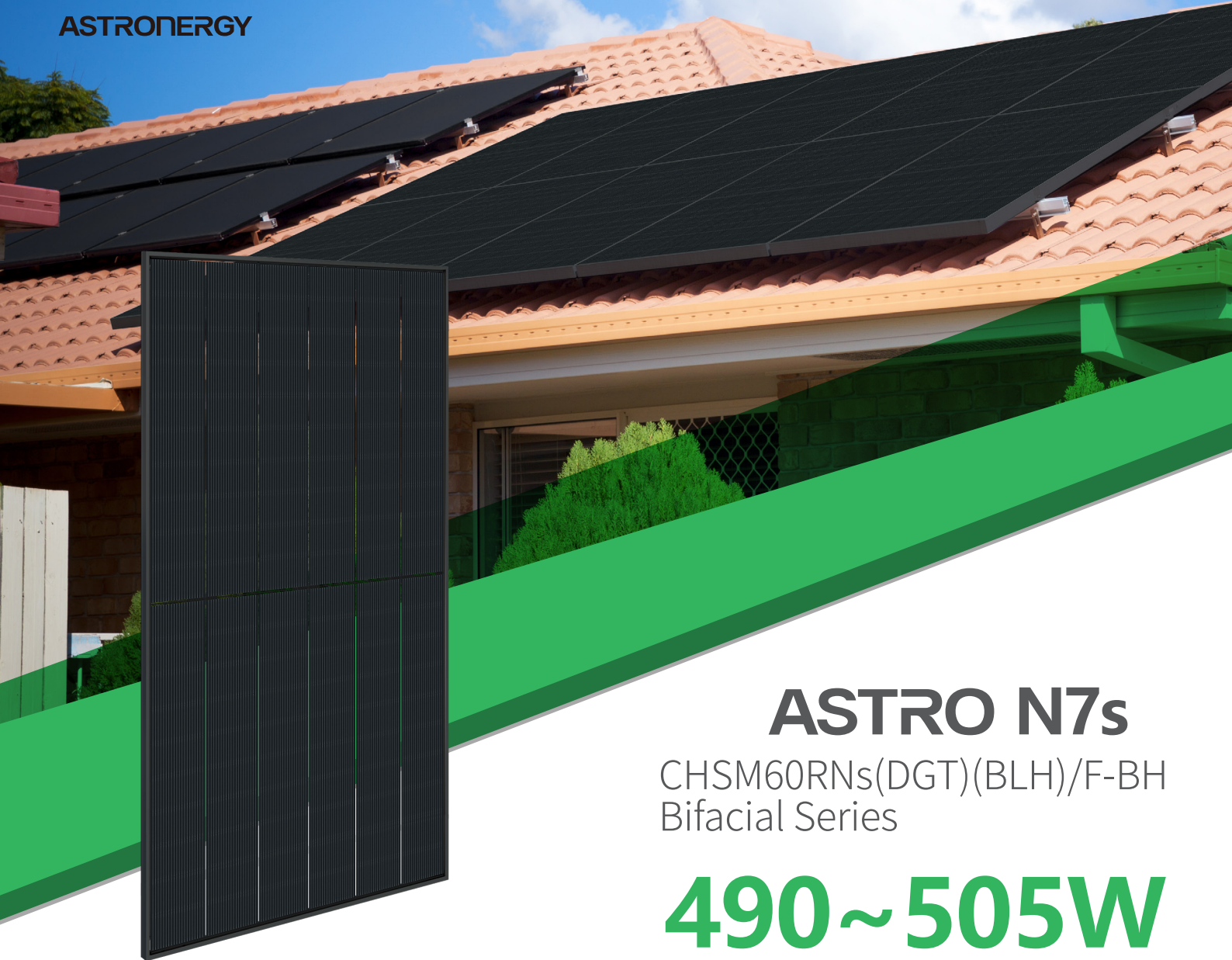




ASTRONERGY

Special for Australian Market
Preliminary



ASTRO N7s

CHSM60RNs(DGT)(BLH)/F-BH
Bifacial Series

490~505W

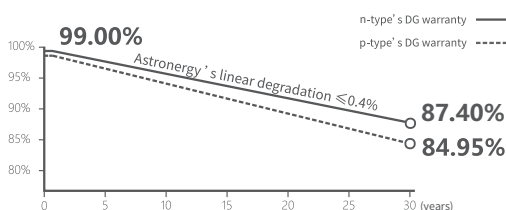
Warranty

30

30-year Product Warranty
(Specified for rooftop market)

30

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



Key Features

- High efficiency n-type TOPCon cells
- Elegant Zero Busbar design
- Dual glass for improved durability
- Manufacturing with AI technology
- Suitable for residential systems
- Easy to install and transport



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



Tier 1
BloombergNEF



490~505W

POWER RANGE

0~+3%

POWER SORTING

22.7%

MAX MODULE
EFFICIENCY

≤ 1.0%

FIRST YEAR
POWER DEGRADATION

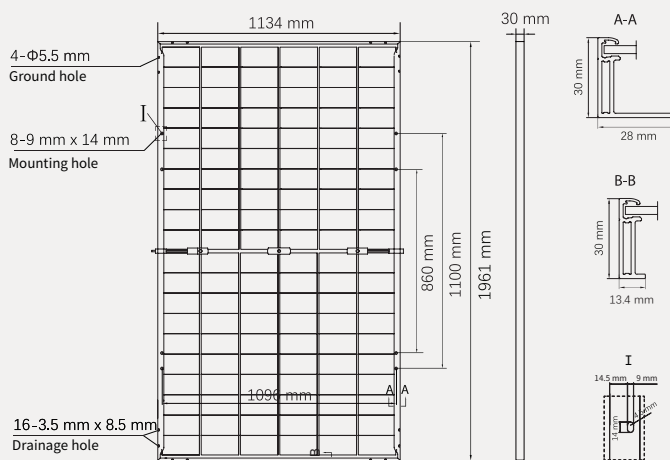
≤ 0.4%

YEAR 2-30
POWER DEGRADATION

Mechanical Specifications

Outer dimensions (L x W x H)	1961 x 1134 x 30 mm
Cell type	n-type mono-crystalline
No. of cells	120 (6*20)
Frame technology	Aluminum, black 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	27.4 kg
Packing unit	36 pcs / box
Weight of packing unit (for 40'HQ container)	1053 kg
Modules per 40' HQ container	864 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 CHSM60RNs(DGT)(BLH)/F-BH-XXX(XXX=490~505)

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

Rated output (P _{mpp} / Wp)	490	495	500	505
Rated voltage (V _{mpp} / V)	36.15	36.32	36.49	36.66
Rated current (I _{mpp} / A)	13.55	13.63	13.70	13.78
Open circuit voltage (V _{oc} / V)	43.59	43.79	43.99	44.19
Short circuit current (I _{sc} / A)	14.23	14.31	14.39	14.46
Module efficiency	22.0%	22.3%	22.5%	22.7%

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)	540	545	550	555
Rated voltage (V _{mpp} / V)	36.33	36.49	36.64	36.80
Rated current (I _{mpp} / A)	14.86	14.94	15.01	15.08
Open circuit voltage (V _{oc} / V)	43.86	44.04	44.23	44.41
Short circuit current (I _{sc} / A)	15.59	15.67	15.74	15.82

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

Electrical characteristics with 10% Bifacial Gains

Rated output (P _{mpp} / Wp)	539	545	550	556
Rated voltage (V _{mpp} / V)	36.15	36.32	36.49	36.66
Rated current (I _{mpp} / A)	14.91	14.99	15.07	15.15
Open circuit voltage (V _{oc} / V)	43.60	43.80	43.99	44.19
Short circuit current (I _{sc} / A)	15.66	15.74	15.83	15.91

Operating Parameters

No. of diodes	3
Junction box IP rating	IP 68
Max. series fuse rating	30 A
Max. system voltage (IEC/UL)	1500V _{DC}

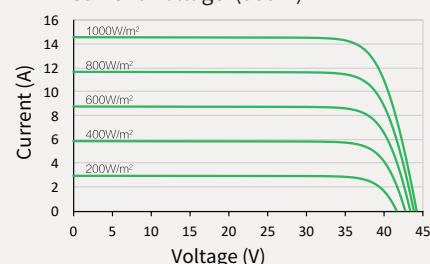
Fire performance: Class C

Temperature Ratings (STC)

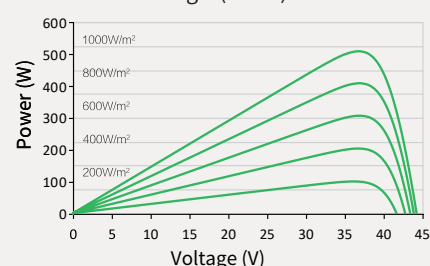
Temperature coefficient (P _{mpp})	-0.29%/°C
Temperature coefficient (I _{sc})	+0.043%/°C
Temperature coefficient (V _{oc})	-0.25%/°C

Curve

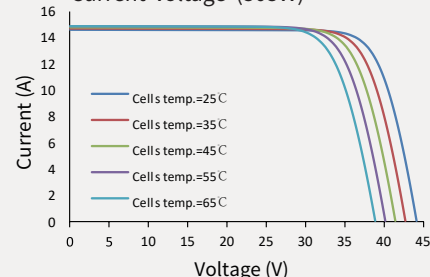
Current-Voltage (505W)



Power-Voltage (505W)



Current-Voltage (505W)



Made in China, Made in Turkey.

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