



ASTRONERGY

Special for Australian Market  
Preliminary



## ASTRO N7s

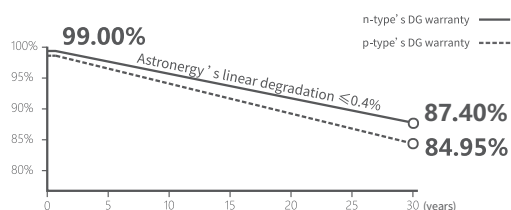
CHSM60RN<sub>s</sub>(DG)/F-BH  
Bifacial Series

# 495~505W

### 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



495~505W

POWER RANGE

0~+3%

POWER SORTING

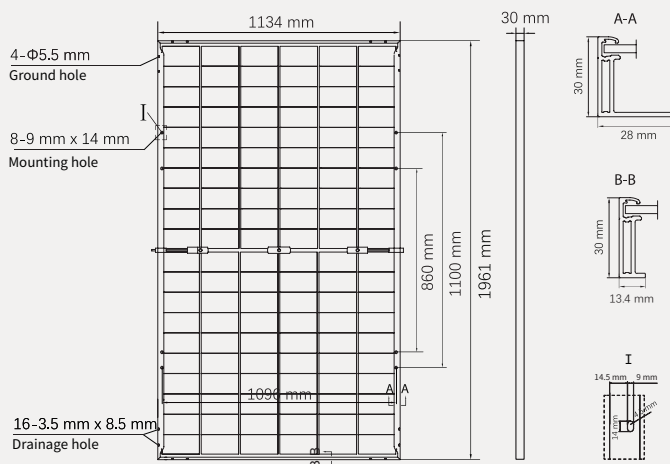
22.7%

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)	1961 x 1134 x 30 mm
Cell type	n-type mono-crystalline
No. of cells	120 (6*20)
Frame technology	Aluminum, black or 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 <sup>2</sup> / 12 AWG
① Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back)
Connector type (IEC/UL)	PV-HCB40 (Astronergy) 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(DG)/F-BH-XXX(XXX=495~505)

**STC:** Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25° C, AM=1.5

Rated output (Pmpp / Wp)	495	500	505
Rated voltage (Vmpp / V)	36.60	36.80	37.00
Rated current (Impp / A)	13.53	13.59	13.65
Open circuit voltage (Voc / V)	43.73	43.93	44.13
Short circuit current (Isc / A)	14.29	14.37	14.45
Module efficiency	22.3%	22.5%	22.7%

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

Rated output (Pmpp / Wp)	545	550	555
Rated voltage (Vmpp / V)	36.54	36.69	36.84
Rated current (Impp / A)	14.92	14.99	15.07
Open circuit voltage (Voc / V)	43.73	43.91	44.09
Short circuit current (Isc / A)	15.76	15.84	15.91

Bifaciality(Pmpp/Isc) : 80±5 %, Bifaciality(Voc) : 98±2 % ; Power tolerance : +/- 3%

## Operating Parameters

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

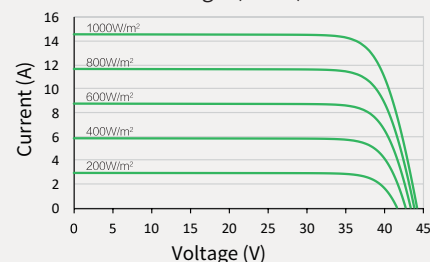
Fire performance: Class C

## Temperature Ratings (STC)

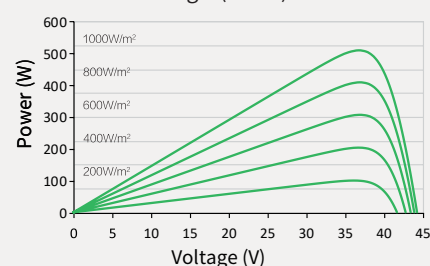
Temperature coefficient (Pmpp)	-0.29%/°C
Temperature coefficient (Isc)	+0.043%/°C
Temperature coefficient (Voc)	-0.25%/°C

## Curve

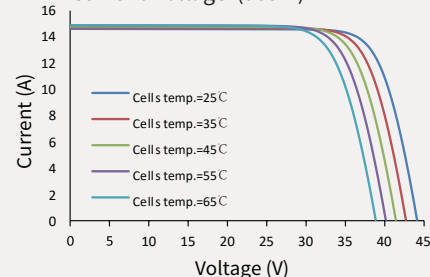
Current-Voltage (505W)



Power-Voltage (505W)



Current-Voltage (505W)



Made in China, Made in Thailand, Made in Turkey.

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