



ASTRONERGY



ASTRO N5s

CHSM54N(DG)/F-HC
Monofacial Series

430~435W

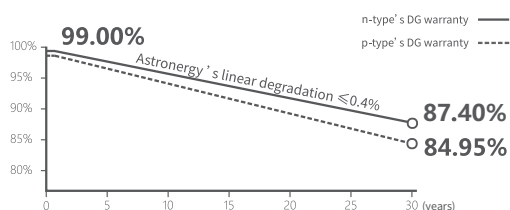
Warranty

30

30-year Product Warranty
(special for rooftop market)

30

30-year Linear Power Warranty



Key Features

- High efficiency n-type TOPCon cells
- 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



430~435W

POWER RANGE

0~+3%

POWER SORTING

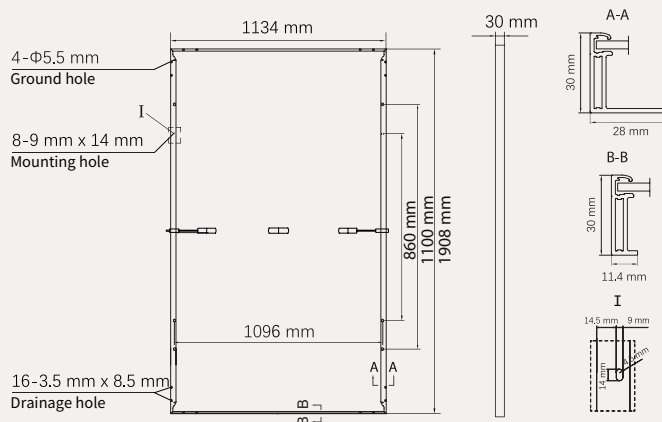
22.3%

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)	1722 x 1134 x 30 mm
Cell type	n-type mono-crystalline
No. of cells	108 (6*18)
Frame technology	Aluminum, black anodized
Front / Back glass	1.6+1.6 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	20.8 kg
Packing unit	36 pcs / box
Weight of packing unit (for 40'HQ container)	793 kg
Modules per 40' HQ container	936 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

CHSM54N(DG)/F-HC-XXX(XXX=430~435)

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

Rated output (Pmpp / Wp)	430	435
Rated voltage (Vmpp / V)	32.87	32.99
Rated current (Impp / A)	13.08	13.18
Open circuit voltage (Voc / V)	39.11	39.26
Short circuit current (Isc / A)	13.85	13.97
Module efficiency	22.0%	22.3%

Tolerance: Pmpp ±3%, Voc ±3% and Isc ±4%.

Temperature Ratings (STC)

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

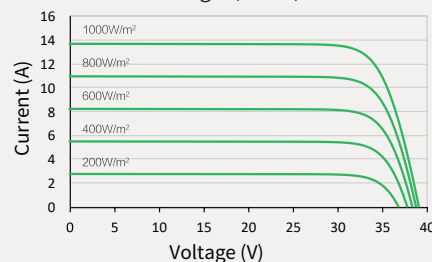
Operating Parameters

No. of diodes	3
Junction box IP rating	IP 68
Max. series fuse rating	25 A
Max. system voltage (IEC/UL)	1500V _{DC}

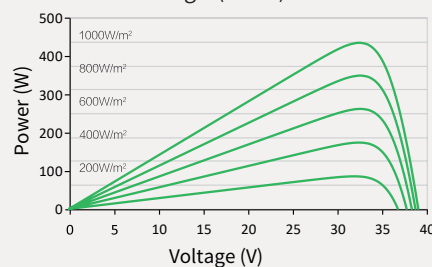
Fire performance: Class C

Curve

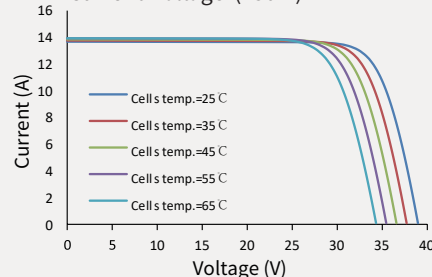
Current-Voltage (430W)



Power-Voltage (430W)



Current-Voltage (430W)



Made in China, Made in Turkey.

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<http://www.astronergy.com.au>

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