ASTRONERGY



ASTRO N5s

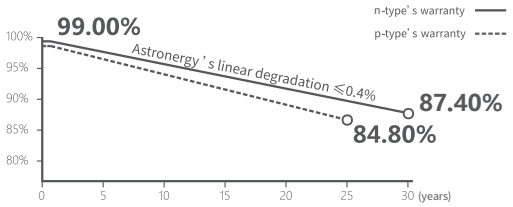
CHSM54N-HC
Monofacial Series

425~445W

Warranty

15 15-year Product Warranty

30 30-year Linear Power Warranty



Key Features

- Suitable for distributed projects
- High power
- High reliability
- Easy to install and transport

Assist carbon neutrality CO_2

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

TOP PERFORMER PVEL member of group kiwa

Tier 1 BloombergNEF

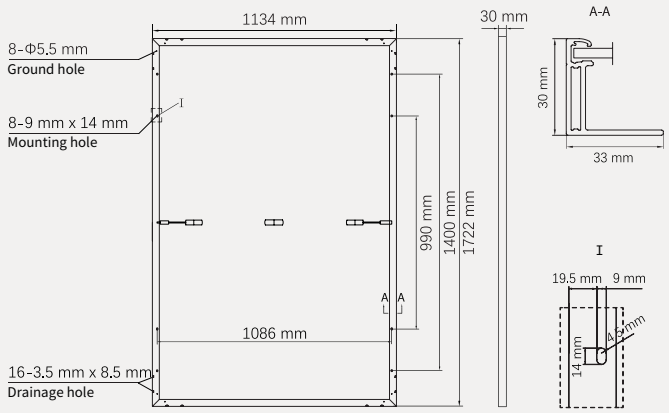
Underwritten by International Insurer

425~445W	0~+3%	22.8%	≤ 1.0%	≤ 0.4%
POWER RANGE	POWER SORTING	MAX MODULE EFFICIENCY	FIRST YEAR POWER DEGRADATION	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 or silver anodized
Front glass thickness	3.2 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)	HCB40 (Standard) / MC4-EVO2A (Optional)
Module weight	21.3 kg
Packing unit	36 pcs / box
Weight of packing unit (for 40'HQ container)	811 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

STC: Irradiance 1000W/m^2, Cell Temperature 25° C, AM=1.5

Rated output (Pmpp / Wp)	425	430	435	440	445
Rated voltage (Vmpp / V)	32.10	32.27	32.44	32.61	32.77
Rated current (Impp / A)	13.24	13.33	13.41	13.49	13.58
Open circuit voltage (Voc / V)	38.20	38.40	38.60	38.80	39.00
Short circuit current (Isc / A)	13.98	14.09	14.19	14.30	14.41
Module efficiency	21.8%	22.0%	22.3%	22.5%	22.8%

NMOT: Irradiance 800W/m^2, Ambient Temperature 20° C, AM=1.5, Wind Speed 1m/s

Rated output (Pmpp / Wp)	319.6	323.4	327.1	330.9	334.6
Rated voltage (Vmpp / V)	30.21	30.37	30.53	30.70	30.84
Rated current (Impp / A)	10.58	10.65	10.71	10.78	10.85
Open circuit voltage (Voc / V)	36.29	36.48	36.67	36.85	37.04
Short circuit current (Isc / A)	11.28	11.37	11.46	11.54	11.63

Temperature Ratings (STC)

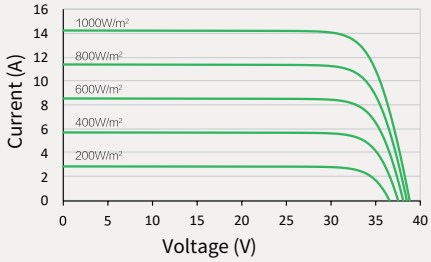
Temperature coefficient (Pmpp)	-0.29%/°C
Temperature coefficient (Isc)	+0.043%/°C
Temperature coefficient (Voc)	-0.25%/°C
Nominal module operating temperature (NMOT)	41±2°C

Operating Parameters

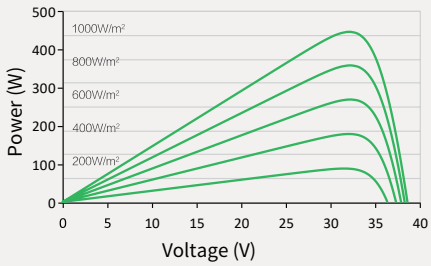
No. of diodes	3
Junction box IP rating	IP 68
Max. series fuse rating	25 A
Max. system voltage (IEC/UL)	1500V_{DC}

Curve

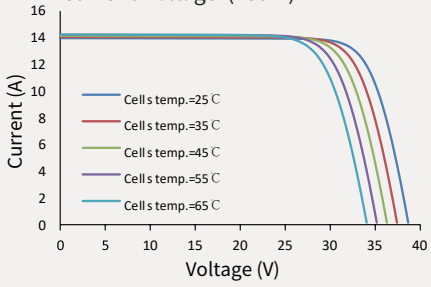
Current-Voltage (435W)



Power-Voltage (435W)



Current-Voltage (435W)



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