



ASTRONERGY



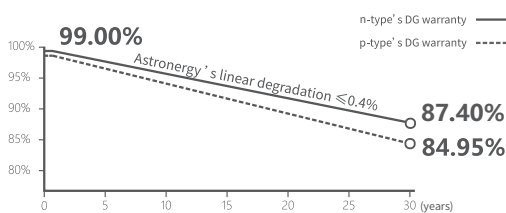
# ASTRO N7

CHSM66RN(DG)/F-HC  
Monofacial Series

# 600~610W

## Warranty

- 15** 15-year Product Warranty
- 30** 30-year Linear Power Warranty



## Key Features

- TOPCon / Half-cut
- Better temperature coefficient (Pmpp)
- Non-destructive cutting
- PID resistance
- Low BOS cost & LCOE



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



**Tier 1**  
BloombergNEF



**600~610W**

POWER RANGE

**0~+3%**

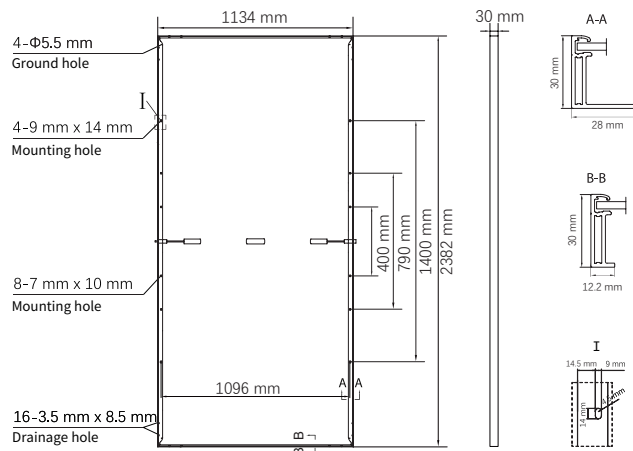
POWER SORTING

**22.6%**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)	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 <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	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-HC-XXX(XXX=600-610)

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

	600	605	610
Rated output (P <sub>mpp</sub> / W <sub>p</sub> )	600	605	610
Rated voltage (V <sub>mpp</sub> / V)	41.05	41.18	41.31
Rated current (I <sub>mpp</sub> / A)	14.62	14.69	14.77
Open circuit voltage (V <sub>oc</sub> / V)	48.44	48.59	48.74
Short circuit current (I <sub>sc</sub> / A)	15.78	15.86	15.94
Module efficiency	22.2%	22.4%	22.6%

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

	451.2	455.0	458.7
Rated output (P <sub>mpp</sub> / W <sub>p</sub> )	451.2	455.0	458.7
Rated voltage (V <sub>mpp</sub> / V)	38.64	38.76	38.88
Rated current (I <sub>mpp</sub> / A)	11.68	11.74	11.80
Open circuit voltage (V <sub>oc</sub> / V)	46.01	46.15	46.30
Short circuit current (I <sub>sc</sub> / A)	12.74	12.80	12.87

Power tolerance: +/- 3.5%

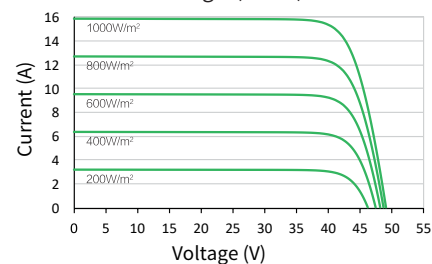
## Temperature Ratings (STC) Operating Parameters

Temperature coefficient (P <sub>mpp</sub> )	-0.29%/°C	No. of diodes	3
Temperature coefficient (I <sub>sc</sub> )	+0.043%/°C	Junction box IP rating	IP 68
Temperature coefficient (V <sub>oc</sub> )	-0.25%/°C	Max. series fuse rating	30 A
Nominal module operating temperature (NMOT)	41±2°C	Max. system voltage (IEC/UL)	1500V <sub>DC</sub>

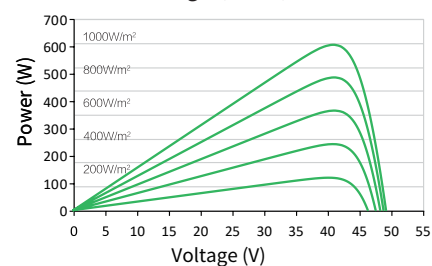
Fire performance: Class A

## Curve

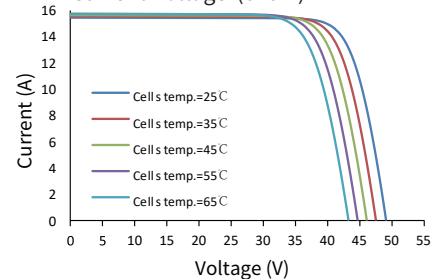
Current-Voltage (610W)



Power-Voltage (610W)



Current-Voltage (610W)



Made in China, Made in Thailand.

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