

# ASTRO 5 Semi

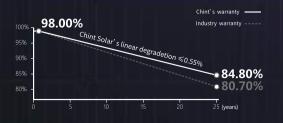
Create Sustainable and Efficient Green Energy

CHSM72M-HC Monofacial Series (182)

535~550W

PERC+ / Multi-busbar / Half-cut Non-destructive cutting PID resistance Lower BOS cost & LCOE





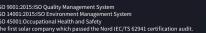




















**POWER RANGE** 

0~+5W

21.3%

MAX MODULE

EFFICIENCY

≤ 2.0%

FIRST YEAR

POWER DEGRADETION

**≤ 0.55%** 

YEAR 2-25 POWER DEGRADETION

## **Electrical Specifications**

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

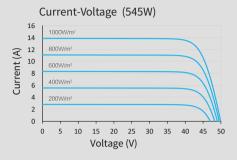
<b>0.0.</b>				
Rated output (Pmpp / Wp)	535	540	545	550
Rated voltage (Vmpp / V)	41.60	41.76	41.93	42.10
Rated current (Impp /A)	12.86	12.93	13.00	13.06
Open circuit voltage (Voc / V)	49.50	49.70	49.90	50.10
Short circuit current (Isc /A)	13.61	13.72	13.81	13.90
Module efficiency	20.7%	20.9%	21.1%	21.3%

#### **NMOT:** Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20° C, AM=1.5, Wind Speed 1m/s Rated output (Pmpp / Wp) 399.8 403.5 407.3 411.0 38.77 38.92 39.08 39.24 Rated voltage (Vmpp / V) Rated current (Impp /A) 10.31 10.37 10.42 10.48 46.97 Open circuit voltage (Voc / V) 46.78 47.16 47.34 11.20 Short circuit current (Isc /A) 11.04 11.13 11.27

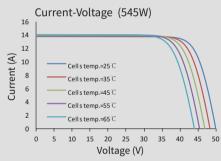
#### **Temperature Ratings (STC) Operating Parameters**

Temperature coefficient (Pmpp)	-0.35%/°C	No. of diodes	3
Temperature coefficient (Isc)	+0.045%/°C	Junction box IP rating	IP 68
Temperature coefficient (Voc)	-0.27%/°C	Max. series fuse rating	25 A
Nominal module operating temperature (NMOT)	41±2°C	Max. system voltage (IEC/UL)	1500V <sub>DC</sub>

#### Curve







### **Mechanical Specifications**

2278 x 1134 x 30 mm	
P type Mono-crystalline	
144 (6*24)	
Aluminum, silver anodized	
3.2 mm	
Portrait: 300 mm; Landscape: 1400 mm	
4 mm <sup>2</sup> / 12 AWG	
5400 Pa (front) / 2400 Pa (back)	
HCB40 / MC4-EVO2 (optional)	
26.6 kg	
36 pcs / box (Subject to sales contract)	
1017 kg	
720 pcs	

① Refer to Astronergy crystalline installation manual or contact technical department. Maximum Mechanical Test Load=1.5×Maximum Mechanical Design Load.

