

# ASTRO 5s

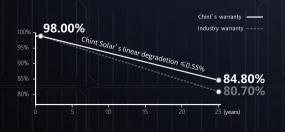
Create Sustainable and Efficient Green Energy

CHSM54M(BL)-HC Monofacial Series (182)

390~405W

PERC+ / Multi-busbar / Half-cut Non-destructive cutting PID resistance All black







12-year Product Warranty (Standard)

15-year Product Warranty (Optional, special for rooftop market)

25-year Linear Power Warranty -





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









0~+5W

20.7%

≤ 2.0%

FIRST YEAR

POWER DEGRADETION

≤ 0.55% YEAR 2-25 POWER DEGRADETION

POWER RANGE

POWER TOLERANCE MAX MODULE EFFICIENCY

### **Electrical Specifications**

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

Rated output (Pmpp / Wp)	390	395	400	405
Rated voltage (Vmpp / V)	30.76	30.92	31.09	31.26
Rated current (Impp /A)	12.68	12.77	12.86	12.96
Open circuit voltage (Voc / V)	36.60	36.80	37.00	37.20
Short circuit current (Isc /A)	13.40	13.52	13.65	13.76
Module efficiency	20.0%	20.2%	20.5%	20.7%

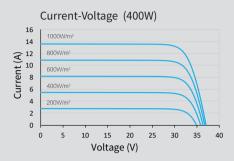
#### $\pmb{NMOT:} Irradiance 800W/m^2, Ambient Temperature 20^{\circ} C, AM=1.5, Wind Speed 1m/s$

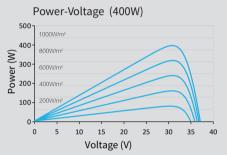
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Rated output (Pmpp / Wp)	291.5	295.2	298.9	302.7
Rated voltage (Vmpp / V)	28.66	28.82	28.98	29.13
Rated current (Impp /A)	10.17	10.24	10.32	10.39
Open circuit voltage (Voc / V)	34.59	34.78	34.97	35.15
Short circuit current (Isc /A)	10.87	10.97	11.07	11.17

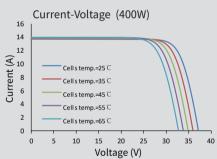
# **Temperature Ratings (STC) Operating Parameters**

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)	1000V <sub>DC</sub>

#### **Curve**







## **Mechanical Specifications**

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ndscape: 1200 mm
Pa (back)
al)
to sales contract)

