



ASTRONERGY

ASTRO 6 Semi

Create Sustainable and Efficient Green Energy

CHSM60M-HC
Monofacial Series (210)

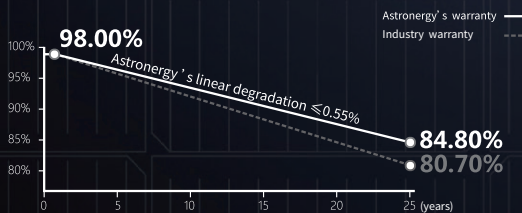
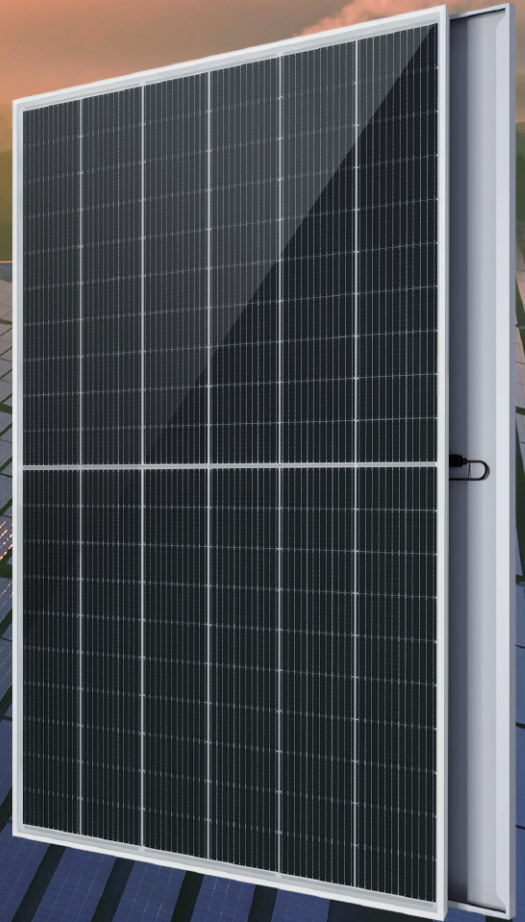
590~605W

PERC+ / Multi-busbar / Half-cut

Non-destructive cutting

PID resistance

Low BOS cost & LCOE



12-year Product Warranty

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.



Tier 1
BloombergNEF



590~605W

POWER RANGE

0~+5W

POWER SORTING

21.4%

MAX MODULE
EFFICIENCY

≤ 2.0%

FIRST YEAR
POWER DEGRADATION

≤ 0.55%

YEAR 2-25
POWER DEGRADATION

Electrical Specifications

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

Rated output (P _{mpp} / W _p)	590	595	600	605
Rated voltage (V _{mpp} / V)	34.00	34.20	34.40	34.60
Rated current (I _{mpp} / A)	17.36	17.40	17.45	17.50
Open circuit voltage (V _{oc} / V)	41.10	41.30	41.50	41.70
Short circuit current (I _{sc} / A)	18.42	18.47	18.52	18.57
Module efficiency	20.8%	21.0%	21.2%	21.4%

NMOT: Irradiance 800W/m², Ambient Temperature 20° C, AM=1.5, Wind Speed 1m/s

Rated output (P _{mpp} / W _p)	440.9	444.6	448.4	452.1
Rated voltage (V _{mpp} / V)	31.68	31.87	32.06	32.25
Rated current (I _{mpp} / A)	13.92	13.95	13.99	14.03
Open circuit voltage (V _{oc} / V)	38.40	38.60	38.80	39.00
Short circuit current (I _{sc} / A)	14.77	14.82	14.87	14.92

Temperature Ratings (STC)

Temperature coefficient (P _{mpp})	-0.34%/°C	No. of diodes	3
Temperature coefficient (I _{sc})	+0.04%/°C	Junction box IP rating	IP 68
Temperature coefficient (V _{oc})	-0.25%/°C	Max. series fuse rating	30 A
Nominal module operating temperature (NMOT)	41±2°C	Max. system voltage (IEC/UL)	1500V _{DC}

Operating Parameters

Mechanical Specifications

Outer dimensions (L x W x H)	2172 x 1303 x 35 mm
Cell type	P type mono-crystalline
No. of cells	120 (6*20)
Frame technology	Aluminum, silver anodized
Front / Back glass	3.2 mm
Cable length (Including connector)	Portrait: (+)410 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	30.7 kg
Packing unit	31 pcs / box (Subject to sales contract)
Weight of packing unit (for 40' HQ container)	1000 kg
Modules per 40' HQ container	527 pcs

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

Curve

