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DYN GmbH

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DYN GmbH

Die DYN GmbH mit Standort in Wien ist ein erfolgreiches Import-Exportunternehmen in Österreich. Das Unternehmen ist auf Solar/Photovoltaik spezialisiert und hat Niederlassungen in China. Die Produkte sind in Wien lagernd.

DYN GmbH engagiert sich seit vielen Jahren für die Entwicklung und Förderung der wirtschaftlichen, handelspolitischen und kulturellen Zusammenarbeit zwischen China und europäischen Ländern.

PARTNERS

In den letzten Jahren hat das Geschäft mit Photovoltaikmodulen unseres Unternehmens weiterhin Marktanteile erobert, und wir pflegen eine langfristige und stabile Zusammenarbeit bei der Beschaffung von Modulmaterialien.



PRODUKTDATEN

DESCRIPTION	MODULE TYPE(WP)
CHSM54M-HC	410
CHSM72M-HC	545

ZERTIFIKATE

COMPREHENSIVE CERTIFICATES



First solar company which passed the TUV Nord IEC/TS 62941 certification audit.





ASTRONERGY

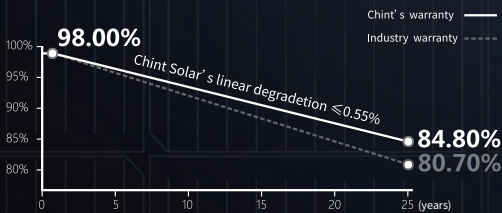
ASTRO 5s

Create Sustainable and Efficient Green Energy

CHSM54M-HC Monofacial Series (182)

400~415W

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



- 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.



Tier 1
BloombergNEF



400~415W

POWER RANGE

0~+5W

POWER TOLERANCE

21.3%

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)	400	405	410	415
Rated voltage (V _{mpp} / V)	31.09	31.26	31.43	31.60
Rated current (I _{mpp} / A)	12.86	12.96	13.05	13.13
Open circuit voltage (V _{oc} / V)	37.00	37.20	37.40	37.60
Short circuit current (I _{sc} / A)	13.65	13.76	13.88	13.99
Module efficiency	20.5%	20.7%	21.0%	21.3%

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

Rated output (P _{mpp} / W _p)	298.9	302.7	306.4	310.1
Rated voltage (V _{mpp} / V)	28.98	29.13	29.29	29.45
Rated current (I _{mpp} / A)	10.32	10.39	10.46	10.53
Open circuit voltage (V _{oc} / V)	34.97	35.15	35.34	35.53
Short circuit current (I _{sc} / A)	11.07	11.17	11.26	11.35

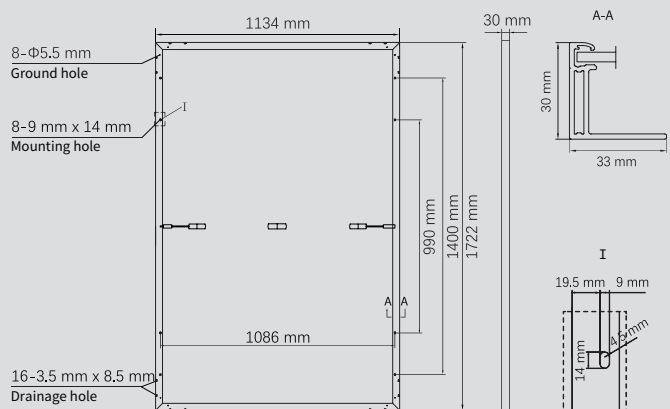
Temperature Ratings (STC)

Temperature coefficient (P _{mpp})	-0.35%/°C	No. of diodes	3
Temperature coefficient (I _{sc})	+0.045%/°C	Junction box IP rating	IP 68
Temperature coefficient (V _{oc})	-0.27%/°C	Max. series fuse rating	25 A
Nominal module operating temperature (NMOT)	41±2°C	Max. system voltage (IEC/UL)	1500V _{DC}

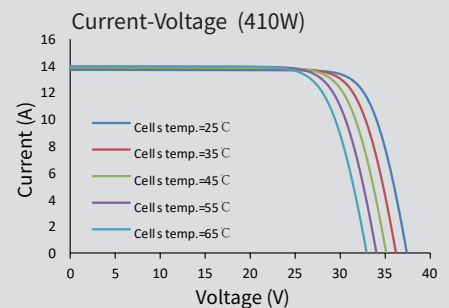
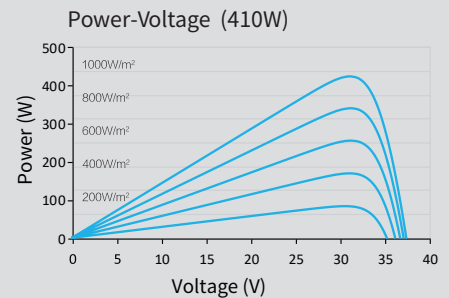
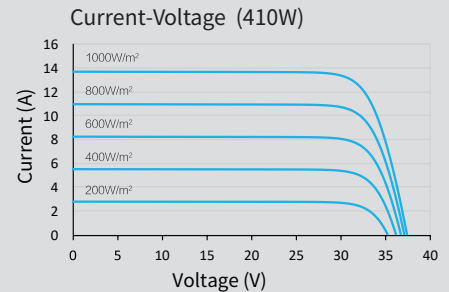
Operating Parameters

Mechanical Specifications

Outer dimensions (L x W x H)	1722 x 1134 x 30 mm
Cell Type	P type Mono-crystalline
No. of cells	108 (6*18)
Frame technology	Aluminum, silver anodized
Front glass thickness	3.2 mm
Cable length (IEC/UL)	Portrait: 300 mm; Landscape: 1200 mm
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 / MC4-EVO2 (optional)
Module weight	21.6 kg
Packing unit	36 pcs / box (Subject to sales contract)
Weight of packing unit (for 40' HQ container)	821 kg
Modules per 40' HQ container	936 pcs



Curve



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



ASTRONERGY

ASTRO 5 Semi

Create Sustainable and Efficient Green Energy

CHSM72M-HC Monofacial Series (182)

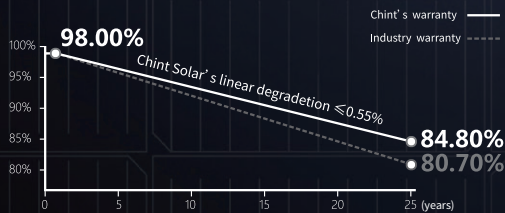
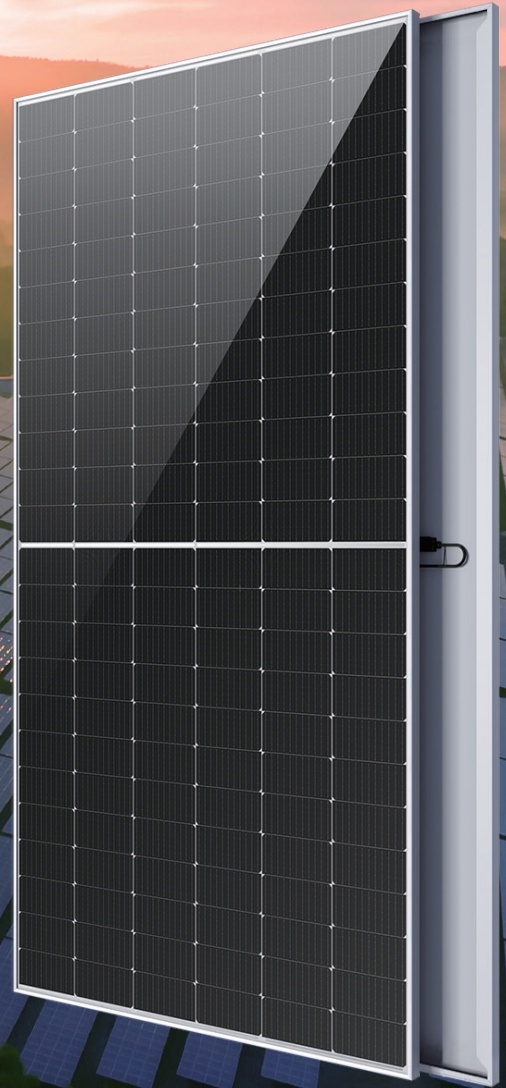
540~555W

PERC+ / Multi-busbar / Half-cut

Non-destructive cutting

PID resistance

Lower 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 45001:2018:Occupational Health and Safety
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Tier 1
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540~555W

POWER RANGE

0~+5W

POWER TOLERANCE

21.5%

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)	540	545	550	555
Rated voltage (V _{mpp} / V)	41.76	41.93	42.10	42.27
Rated current (I _{mpp} / A)	12.93	13.00	13.06	13.13
Open circuit voltage (V _{oc} / V)	49.70	49.90	50.10	50.30
Short circuit current (I _{sc} / A)	13.72	13.81	13.90	13.98
Module efficiency	20.9%	21.1%	21.3%	21.5%

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

Rated output (P _{mpp} / W _p)	403.5	407.3	411.0	414.8
Rated voltage (V _{mpp} / V)	38.92	39.08	39.24	39.39
Rated current (I _{mpp} / A)	10.37	10.42	10.48	10.53
Open circuit voltage (V _{oc} / V)	46.97	47.16	47.34	47.53
Short circuit current (I _{sc} / A)	11.13	11.20	11.27	11.35

Temperature Ratings (STC)

Temperature coefficient (P _{mpp})	-0.35%/°C	No. of diodes	3
Temperature coefficient (I _{sc})	+0.045%/°C	Junction box IP rating	IP 68
Temperature coefficient (V _{oc})	-0.27%/°C	Max. series fuse rating	25 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)	2278 x 1134 x 35 mm
Cell Type	P type Mono-crystalline
No. of cells	144 (6*24)
Frame technology	Aluminum, silver anodized
Front glass thickness	3.2 mm
Cable length (IEC/UL)	Portrait: 300 mm; Landscape: 1400 mm
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 / MC4-EVO2 (optional)
Module weight	26.9 kg
Packing unit	31 pcs / box (Subject to sales contract)
Weight of packing unit (for 40' HQ container)	893 kg
Modules per 40' HQ container	620 pcs

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

Curve

