



ASTRONERGY
A CHINT COMPANY



ASTRO 5 Semi

Create Sustainable and Efficient Green Energy

CHSM72M-HC
Monofacial Series (182)

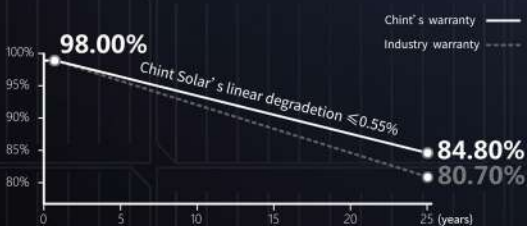
535~550W

PERC+ / Multi-busbar / Half-cut

Non-destructive cutting

PID resistance

Lower BOS cost & LCOE



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



บริษัท แมสเทค ลิงค์ จำกัด (สำนักงานใหญ่)

ที่อยู่ 74 ซอยนาคมีวาส 48 ถนนนาคมีวาส แขวงลาดพร้าว เขตลาดพร้าว กรุงเทพมหานคร 10230



535~550W

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} / Wp) | 535 | 540 | 545 | 550 |
| Rated voltage (V _{mpp} / V) | 41.60 | 41.76 | 41.93 | 42.10 |
| Rated current (I _{mpp} / A) | 12.86 | 12.93 | 13.00 | 13.06 |
| Open circuit voltage (V _{oc} / V) | 49.50 | 49.70 | 49.90 | 50.10 |
| Short circuit current (I _{sc} / A) | 13.61 | 13.72 | 13.81 | 13.90 |
| Module efficiency | 20.7% | 20.9% | 21.1% | 21.3% |

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

| | | | | |
|---|-------|-------|-------|-------|
| Rated output (P _{mpp} / Wp) | 399.8 | 403.5 | 407.3 | 411.0 |
| Rated voltage (V _{mpp} / V) | 38.77 | 38.92 | 39.08 | 39.24 |
| Rated current (I _{mpp} / A) | 10.31 | 10.37 | 10.42 | 10.48 |
| Open circuit voltage (V _{oc} / V) | 46.78 | 46.97 | 47.16 | 47.34 |
| Short circuit current (I _{sc} / A) | 11.04 | 11.13 | 11.20 | 11.27 |

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

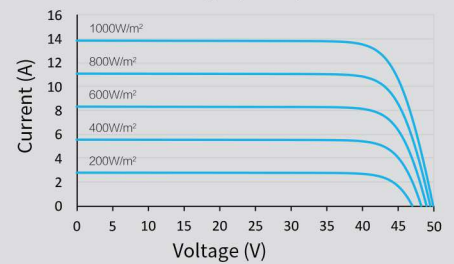
Mechanical Specifications

| | |
|---|--|
| 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 |

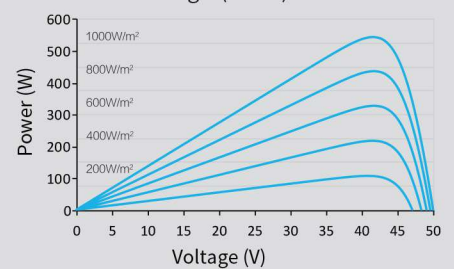
① Refer to Astronergy crystalline installation manual or contact technical department.
Maximum Mechanical Test Load=1.5× Maximum Mechanical Design Load.

Curve

Current-Voltage (545W)



Power-Voltage (545W)



Current-Voltage (545W)

