

AstroSemi™

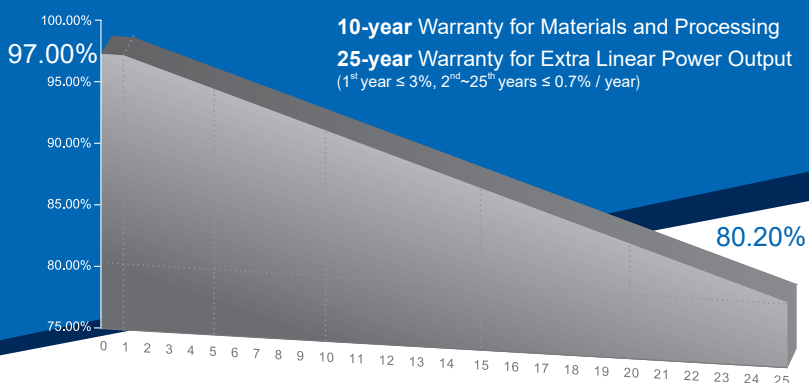
Incredible Power for Small Body

Kliknij i sprawdź dostępność na Solar.pl

310W~325W

5BB-Monocrystalline PV Module

CHSM60M-HC Series



KEY FEATURES

- +5W OUTPUT POSITIVE TOLERANCE**
Guaranteed 0~+5W positive tolerance ensures power output reliability.
- INNOVATIONAL HALF-CELL TECHNOLOGY**
Improves the module output, decreases the risk of micro-crack, enhances the module reliability.
- INNOVATIVE PERC CELL TECHNOLOGY**
Excellent cell efficiency and output.
- REDUCE SHADOW LOSS**
Effectively reduces the effect of shadow on the module surface.
- REDUCE INTERNAL MISMATCH LOSS**
Reduces mismatch loss and improves output.
- PASSED HAIL TEST**
Certified to hail resistance: ice ball size (d=45mm) and ice ball velocity (v=30.7m/s).
- Anti PID RESISTANCE**
Excellent PID resistance at 96 hours (@85°C /85%) test, and also can be improved to meet higher standards for the particularly harsh environment.

COMPREHENSIVE CERTIFICATES



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

For Global Market



ASTRONERGY
A CHNT COMPANY

ELECTRICAL SPECIFICATIONS

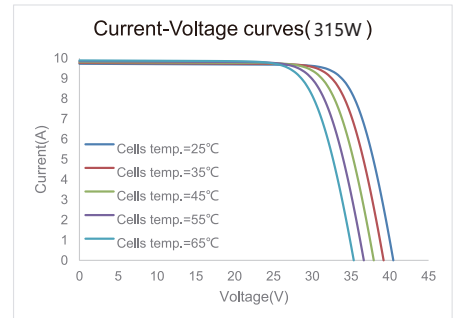
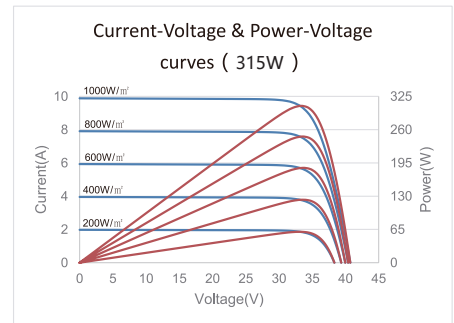
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|--|---------------------|----------|----------|----------|
| STC rated output (P_{mpp})* | 310 Wp | 315 Wp | 320 Wp | 325 Wp |
| Rated voltage (V_{mpp}) at STC | 33.15 V | 33.44 V | 33.68 V | 33.93 V |
| Rated current (I_{mpp}) at STC | 9.35 A | 9.42 A | 9.50 A | 9.58 A |
| Open circuit voltage (V_{oc}) at STC | 40.11 V | 40.42 V | 40.72 V | 41.03 V |
| Short circuit current (I_{sc}) at STC | 9.82 A | 9.90 A | 9.98 A | 10.06 A |
| Module efficiency | 18.8% | 19.1% | 19.4% | 19.7% |
| Rated output (P_{mpp}) at NOCT | 231.2 Wp | 234.9 Wp | 238.6 Wp | 242.4 Wp |
| Rated voltage (V_{mpp}) at NOCT | 30.91 V | 31.18 V | 31.39 V | 31.63 V |
| Rated current (I_{mpp}) at NOCT | 7.48 A | 7.53 A | 7.60 A | 7.66 A |
| Open circuit voltage (V_{oc}) at NOCT | 37.71 V | 38.00 V | 38.28 V | 38.57 V |
| Short circuit current (I_{sc}) at NOCT | 7.90 A | 7.96 A | 8.03 A | 8.09 A |
| Temperature coefficient (P_{mpp}) | - 0.3438%/°C | | | |
| Temperature coefficient (I_{sc}) | +0.0353%/°C | | | |
| Temperature coefficient (V_{oc}) | - 0.2722%/°C | | | |
| Normal operating cell temperature (NOCT) | 44±2°C | | | |
| Maximum system voltage (IEC/UL) | 1500V _{DC} | | | |
| Number of diodes | 3 | | | |
| Junction box IP rating | IP 67 | | | |
| Maximum series fuse rating | 20 A | | | |

* Measurement tolerance +/- 3%

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

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

CURVE



MECHANICAL SPECIFICATIONS

| | |
|--------------------------------|--|
| Outer dimensions (L x W x H) | 1666 x 992 x 35 mm 65.59 x 39.06 x 1.38 in |
| Frame technology | Aluminum, silver anodized |
| Module composition | Glass / EVA / Backsheet (white) |
| Front glass thickness | 3.2 mm / 0.13 in |
| Cable length (IEC/UL) | Portrait: 700 mm (27.56 in) Landscape: 1000 mm (39.37 in) |
| Cable diameter (IEC/UL) | 4 mm ² / 12 AWG |
| ① Maximum mechanical test load | 6000 Pa (front) / 3600 Pa (back) |
| Fire performance (IEC/UL) | Class C (IEC) or Type 1 (UL) |
| Connector type (IEC/UL) | MC4 compatible |

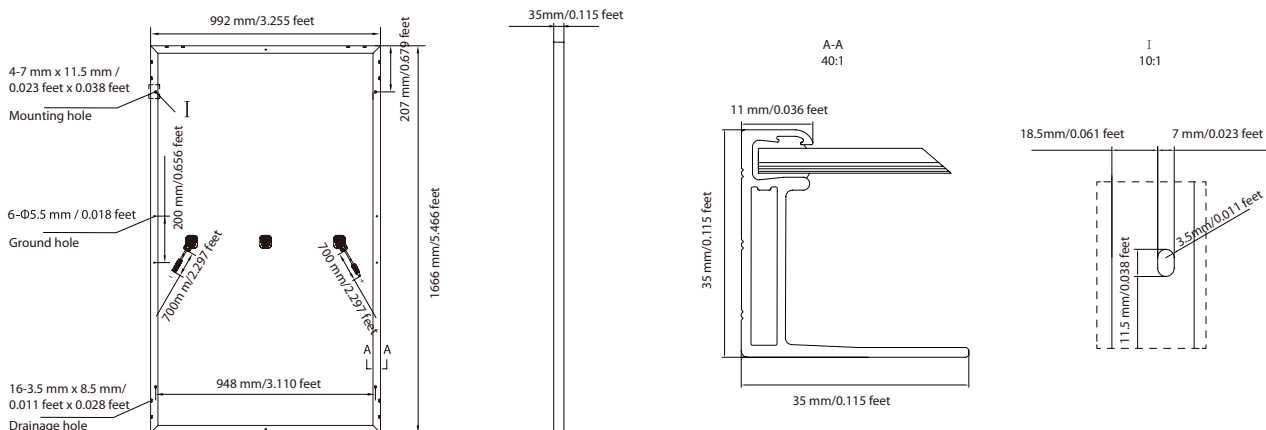
① Refer to Astronergy crystalline installation manual or contact technical department.
Maximum Mechanical Test Load=1.5×Maximum Mechanical Design Load.

PACKING SPECIFICATIONS

| | |
|--|---------------------|
| ① Weight (module only) | 18.6 kg / 41.01 lbs |
| ② Packing unit | 31 pcs / box |
| Weight of packing unit (for 40'HQ container) | 616 kg / 1358 lbs |
| Number of modules per 40'HQ container | 868 pcs |

① Tolerance +/- 1.0kg
② Subject to sales contract

MODULE DIMENSION DETAILS



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