AstroTwins[™] Enjoy the Energy of the Universe



Multi-Busbar Module could be the option

COMPREHENSIVE CERTIFICATES



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

315W~335W

P-type Monocrystalline PV Module CHSM60M(DG)/F-BH Series (156.75)

CHSM60M(DG)/F-BH is bifacial module with white glazed glass



KEY FEATURES



OUTPUT POSITIVE TOLERANCE Guaranteed 0~+5W positive tolerance ensures power output reliability.



ENHANCED FIRE PERFORMANCE

Fire Class A certified according to IEC standard.



EXCELLENT WEATHER RESISTANCE

Reduces the cell micro-crack and extended product warranty.

BIFACIAL POWER

The backside makes use of the reflected and scattered light from the surroundings, the modules can yield up to 5%~30% power more, depending on the albedo.



REDUCE INTERNAL MISMATCH LOSS





APPLICABLE FOR MULTI DIFFERENT ENVIRONMENTS The wide range of applications, such as BIPV, vertical installation, snow area, high humidity area and strong sandstorm area, etc.



SNAIL TRAIL RESISTANCE

Reduces the probability of snail trails with zero water vaper transmittance.



ELECTRICAL SPECIFICATIONS

| Power rating (front) | 315 | Wp | 320 | Wp | 325 | Wp | 330 | Wp | 335 | Wp |
|--|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Testing Condition | Front | Back | Front | Back | Front | Back | Front | Back | Front | Back |
| STC rated output (Pmpp/Wp)* | 315 | 222 | 320 | 225 | 325 | 229 | 330 | 232 | 335 | 236 |
| Rated voltage (V _{mpp} /V) at STC | 33.48 | 33.65 | 33.73 | 33.90 | 33.97 | 34.14 | 34.21 | 34.38 | 34.44 | 34.62 |
| Rated current (Impp/A) at STC | 9.41 | 6.59 | 9.49 | 6.65 | 9.57 | 6.70 | 9.65 | 6.76 | 9.73 | 6.82 |
| Open circuit voltage (V $_{\infty}$ /V) at STC | 40.04 | 38.86 | 40.23 | 39.04 | 40.42 | 39.23 | 40.61 | 39.41 | 40.80 | 39.60 |
| Short circuit current (Isc/A) at STC | 9.86 | 6.91 | 9.93 | 6.96 | 10.00 | 7.01 | 10.07 | 7.06 | 10.14 | 7.11 |
| Module efficiency | 18.6% | 13.1% | 18.9% | 13.3% | 19.2% | 13.5% | 19.5% | 13.7% | 19.8% | 13.9% |
| Temperature coefficient (P _{mpp}) | - 0.3438%/°C | | | | | | | | | |
| Temperature coefficient (Isc) | +0.0353%/°C | | | | | | | | | |
| Temperature coefficient (Voc) | - 0.2722%/°C | | | | | | | | | |
| Nominal module operating temperature (NMOT) | 44±2°C | | | | | | | | | |
| Maximum system voltage (IEC/UL) | 1500V _{DC} | | | | | | | | | |
| Number of diodes | 3 | | | | | | | | | |
| Junction box IP rating | IP 68 | | | | | | | | | |
| Maximum series fuse rating | 20 A | | | | | | | | | |

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

| ELECTRICAL SPECIFICATIONS (Integrated power) | | | | | |
|--|--------|------------------|---------|---------|---------|
| P _{mpp} gain | Pmpp | V _{mpp} | Impp | Voc | lsc |
| 5% | 341 Wp | 33.97 V | 10.05 A | 40.23 V | 10.50 A |
| 10% | 358 Wp | 33.97 V | 10.52 A | 40.23 V | 11.00 A |
| 15% | 374 Wp | 33.87 V | 11.03 A | 40.33 V | 11.50 A |
| 20% | 390 Wp | 33.87 V | 11.51 A | 40.33 V | 12.00 A |
| 25% | 406 Wp | 33.87 V | 11.99 A | 40.33 V | 12.50 A |

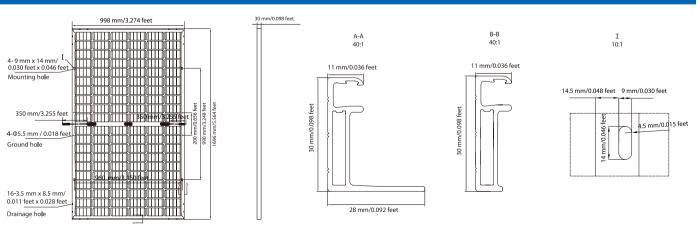
Electrical characteristics with different rear power gain (reference to 325W)

MECHANICAL SPECIFICATIONS

| Outer dimensions (L x W x H) | 1696 x 998 x 30 mm 66.77 x 39.29 x 1.18 in |
|---|--|
| Module composition | Glass / POE / Glass |
| Glass thickness | 2.5 mm / 0.098 in |
| Cable length (IEC/UL) | Portrait: 350 mm (13.78 in) Landscape: 1100 mm (43.31 in) |
| Cable diameter (IEC/UL) | 4 mm² / 12 AWG |
| ^① Maximum mechanical test load | 5400 Pa (front) / 2400 Pa (back) |
| Fire performance (IEC/UL) | Class A (IEC) or Type 3 (UL) |
| Connector type (IEC/UL) | MC4 compatible |
| | |

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

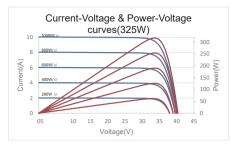
MODULE DIMENSION DETAILS

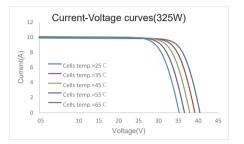


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http://energy.chint.com

CURVE





| PACKING SPECIFICATIONS | | | | |
|---|---------------------|--|--|--|
| ^① Weight (module only) | 25.3 kg / 55.78 lbs | | | |
| [©] Packing unit | 36 pcs / box | | | |
| Weight of packing unit (for 40'HQ container) | 953 kg / 2101 lbs | | | |
| Number of modules per 40'HQ container | 936 pcs | | | |
| | | | | |

[©] Tolerance +/- 1.0kg

© Subject to sales contract