

For Global Market



STAVE™ II

335W~355W

5BB-Polycrystalline PV Module

CHSM72P-HC Series

Tier 1

Bloomberg

No.1

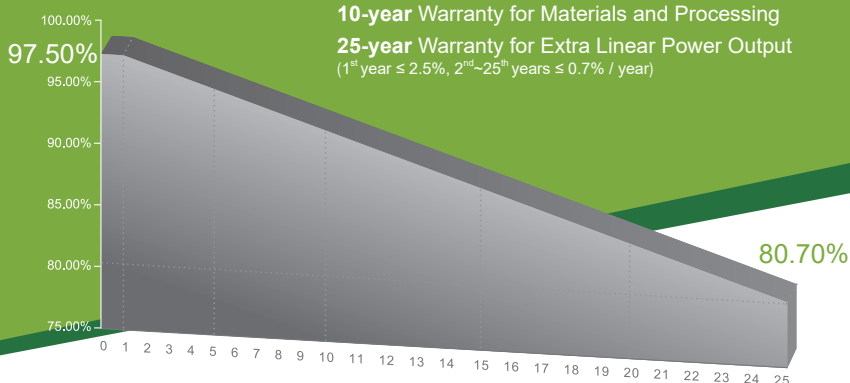
PHOTON

MunichRe

Insured

DNV GL

2017 TOP
Performance



KEY FEATURES



OUTPUT POSITIVE TOLERANCE

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



INNOVATIONAL 5-BUSBAR CELLS

Reduces the cell series resistance and internal stress, decreases the risk of micro-crack and improves the module output.



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).



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.



ELECTRICAL SPECIFICATIONS

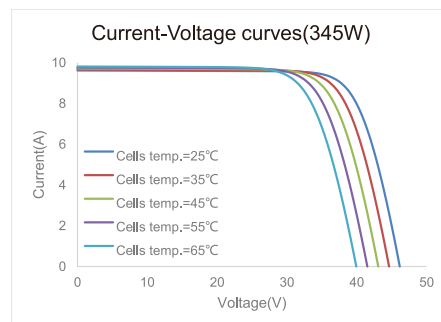
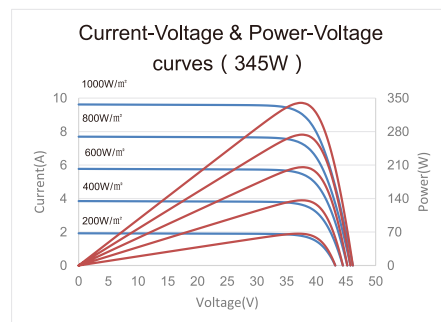
| | | | | | |
|--|---------------------|----------|----------|----------|----------|
| STC rated output (P_{mpp})* | 335 Wp | 340 Wp | 345 Wp | 350 Wp | 355 Wp |
| Rated voltage (V_{mpp}) at STC | 37.57 V | 37.64 V | 37.71 V | 37.78 V | 37.87 V |
| Rated current (I_{mpp}) at STC | 8.92 A | 9.03 A | 9.15 A | 9.26 A | 9.37 A |
| Open circuit voltage (V_{oc}) at STC | 45.74 V | 45.86 V | 46.04 V | 46.25 V | 46.45 V |
| Short circuit current (I_{sc}) at STC | 9.37 A | 9.47 A | 9.57 A | 9.65 A | 9.74 A |
| Module efficiency | 17.0% | 17.3% | 17.5% | 17.8% | 18.0% |
| Rated output (P_{mpp}) at NOCT | 233.9 Wp | 237.4 Wp | 240.9 Wp | 244.4 Wp | 247.9 Wp |
| Rated voltage (V_{mpp}) at NOCT | 34.32 V | 34.40 V | 34.45 V | 34.54 V | 34.62 V |
| Rated current (I_{mpp}) at NOCT | 6.82 A | 6.90 A | 6.99 A | 7.08 A | 7.16 A |
| Open circuit voltage (V_{oc}) at NOCT | 41.97 V | 42.08 V | 42.25 V | 42.44 V | 42.62 V |
| Short circuit current (I_{sc}) at NOCT | 7.25 A | 7.32 A | 7.40 A | 7.46 A | 7.53 A |
| Temperature coefficient (P_{mpp}) | - 0.408%/°C | | | | |
| Temperature coefficient (I_{sc}) | +0.050%/°C | | | | |
| Temperature coefficient (V_{oc}) | - 0.311%/°C | | | | |
| Normal operating cell temperature (NOCT) | 46±2°C | | | | |
| Maximum system voltage (IEC/UL) | 1500V _{DC} | | | | |
| Number of diodes | 3 | | | | |
| Junction box IP rating | IP 67 | | | | |
| Maximum series fuse rating | 15 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



PACKING SPECIFICATIONS

| | |
|--|---------------------|
| ① Weight (module only) | 22.2 kg / 48.94 lbs |
| ② Packing unit | 27 pcs / box |
| Weight of packing unit (for 40'HQ container) | 658 kg / 1451 lbs |
| Number of modules per 40'HQ container | 594 pcs |

① Tolerance +/- 1.0kg

② Subject to sales contract

MECHANICAL SPECIFICATIONS

| | |
|--------------------------------|---|
| Outer dimensions (L x W x H) | 1986 x 992 x 40 mm 78.19 x 39.06 x 1.57 in |
| Frame technology | Aluminum, silver anodized |
| Module composition | Glass / EVA / Backsheet (white) |
| Front glass thickness | 3.2 mm / 0.13 in |
| ① Cable length (IEC/UL) | 350 mm / 13.78 in |
| Cable diameter (IEC/UL) | 4 mm ² / 12 AWG |
| ② Maximum mechanical test load | 6000 Pa |
| 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.

MODULE DIMENSION DETAILS

