

For Global Market



VIOLIN™

Crystalline PV Module

Baseline CHSM6612P Series

Baseline CHSM6612P/HV Series

- ▶ With innovational 4-busbar cells
- ▶ Reducing cell series resistance
- ▶ Increasing cell efficiency
- ▶ More power output

CHSM6612P max system voltage 1000V standard, CHSM6612P/HV max system voltage 1500V standard

310 315 320 325 330

EN

ELECTRICAL SPECIFICATIONS

| | 310 | 315 | 320 | 325 | 330 |
|--|---|----------|----------|----------|----------|
| STC rated output (P_{mpp})* | 310 Wp | 315 Wp | 320 Wp | 325 Wp | 330 Wp |
| PTC rated output (P_{mpp} **) | 282.5 Wp | 287.2 Wp | 291.9 Wp | 296.6 Wp | 301.3 Wp |
| Standard sorted output | 0/+5 Wp | | | | |
| Warranted power output STC ($P_{nominal}$) | 310 Wp | 315 Wp | 320 Wp | 325 Wp | 330 Wp |
| Rated voltage (V_{mpp}) at STC | 36.91 V | 36.99 V | 37.02 V | 37.11 V | 37.15 V |
| Rated current (I_{mpp}) at STC | 8.40 A | 8.53 A | 8.65 A | 8.77 A | 8.89 A |
| Open circuit voltage (V_{oc}) at STC | 45.15 V | 45.30 V | 45.45 V | 45.67 V | 45.86 V |
| Short circuit current (I_{sc}) at STC | 8.92 A | 9.04 A | 9.25 A | 9.48 A | 9.52 A |
| Module efficiency | 16.0% | 16.3% | 16.5% | 16.8% | 17.1% |
| Rated output (P_{mpp}) at NOCT | 216.5 Wp | 220.0 Wp | 223.5 Wp | 226.9 Wp | 230.4 Wp |
| Rated voltage (V_{mpp}) at NOCT | 33.71 V | 33.74 V | 33.80 V | 33.86 V | 33.92 V |
| Rated current (I_{mpp}) at NOCT | 6.42 A | 6.52 A | 6.61 A | 6.70 A | 6.79 A |
| Open circuit voltage (V_{oc}) at NOCT | 41.43 V | 41.57 V | 41.70 V | 41.91 V | 42.08 V |
| Short circuit current (I_{sc}) at NOCT | 6.90 A | 6.99 A | 7.15 A | 7.33 A | 7.37 A |
| Temperature coefficient (P_{mpp}) | - 0.408%/K | | | | |
| Temperature coefficient (I_{sc}) | +0.050%/K | | | | |
| Temperature coefficient (I_{mpp}) | - 0.003%/K | | | | |
| Temperature coefficient (V_{mpp}) | - 0.406%/K | | | | |
| Temperature coefficient (V_{oc}) | - 0.311%/K | | | | |
| Normal operating cell temperature (NOCT) | 46±2°C | | | | |
| Maximum system voltage (IEC/UL) | 1000V _{DC} / 1000V _{DC} or 1500V _{DC} / 1500V _{DC} | | | | |
| Number of diodes | 6 (or 3) | | | | |
| Maximum series fuse rating | 15 A | | | | |

* Measurement tolerance +/- 3%

** Estimated



RELATED PARAMETERS

| | |
|--|-------------------|
| Cell type | Polycrystalline |
| Number of cells / cell arrangement | 72 / 6 x 12 |
| Cells dimension | 6" |
| Packing unit | 25 modules |
| Weight of packing unit (for container) | 598 kg / 1318 lbs |

MECHANICAL SPECIFICATIONS

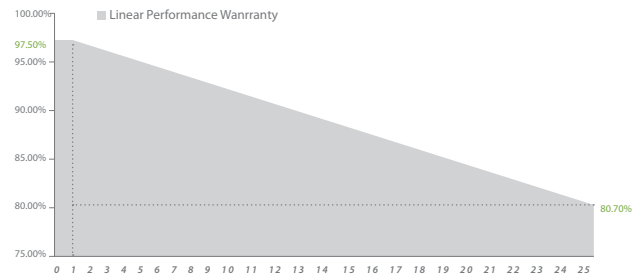
| | |
|------------------------------|---|
| Outer dimensions (L x W x H) | 1954 x 990 x 40 mm 76.93 x 38.98 x 1.57 in |
| Frame technology | Aluminum, silver anodized |
| Module composition | Glass / EVA / Backsheet (white) |
| Weight (module only) | 21.8 kg / 48.1 lbs |
| Front glass thickness | 3.2 mm / 0.13 in |
| Junction box IP rating | IP 65 (above) |
| ① Cable length (UL/IEC) | 900(+)/600(-)mm / 35.43/23.62 in |
| Cable diameter (UL/IEC) | 12 AWG / 4 mm ² |
| ② Maximum load capacity | 5400 Pa |
| Fire performance (UL/IEC) | Type 1 (UL) or Class C (IEC) |
| Connector type (UL/IEC) | MC4 compatible |

① Option: 1000mm or 1150mm for defined projects in advance.

② Refer to Astronergy crystalline installation manual.

QUALIFICATION AND LINEAR WARRANTIES

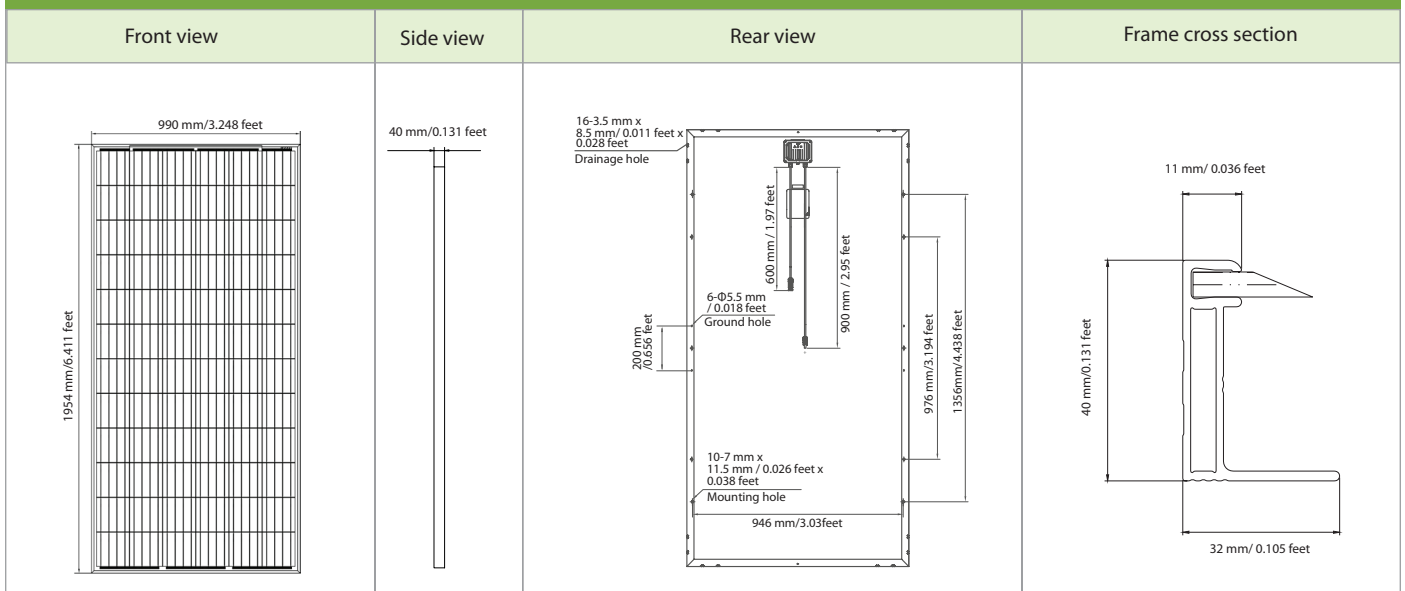
| | |
|--|--|
| Product standard | IEC 61215, 61730 / UL1703 |
| Extended product warranty | 10 years |
| Output decline 2.5%/year performance P _{mp} (STC) | 1 st year |
| Output decline 0.7%/year performance P _{mp} (STC) | 2 nd - 25 th years |



ARTICLE NUMBER

| Model | Article No. (IEC) | Article No. (UL) |
|---------------------------|-------------------|------------------|
| (VIOLIN) CHSM6612P-310 | 200590 | 200596 |
| (VIOLIN) CHSM6612P-315 | 200591 | 200597 |
| (VIOLIN) CHSM6612P-320 | 200592 | 200598 |
| (VIOLIN) CHSM6612P-325 | 200593 | 200599 |
| (VIOLIN) CHSM6612P-330 | 200594 | 200600 |
| (VIOLIN) CHSM6612P/HV-310 | 500071 | 500077 |
| (VIOLIN) CHSM6612P/HV-315 | 500072 | 500078 |
| (VIOLIN) CHSM6612P/HV-320 | 500073 | 500079 |
| (VIOLIN) CHSM6612P/HV-325 | 500074 | 500080 |
| (VIOLIN) CHSM6612P/HV-330 | 500075 | 500081 |

MODULE DIMENSION DETAILS



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