

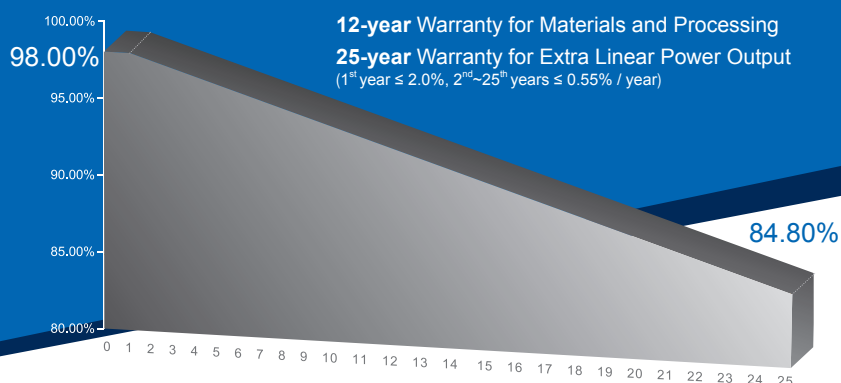
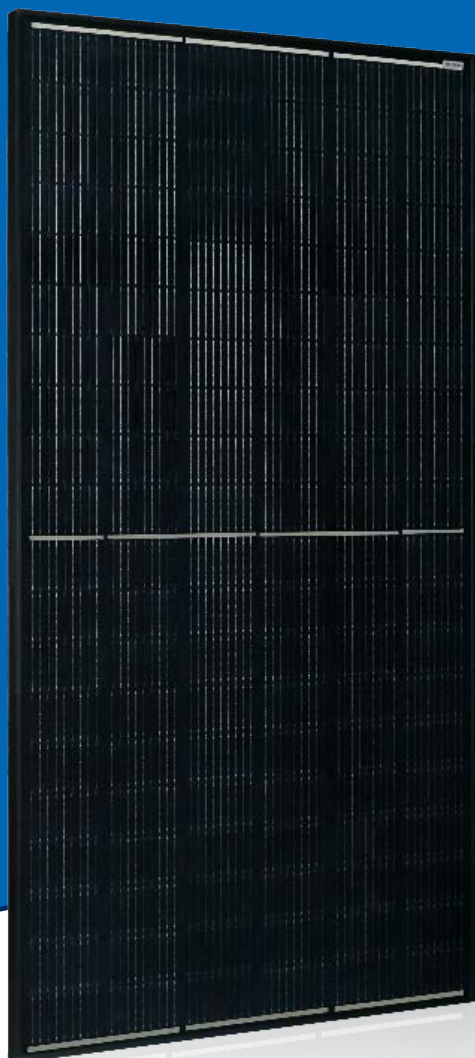
# PENTA<sup>+</sup> Premium M6<sup>TM</sup>

Incredible Power for Small Body

## 350W~365W

Monocrystalline PV Module

CHSM60M(BL)-HC Series (166)



### 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.
- THE-STATE-OF-THE-ART APPEARANCE**  
FULL BLACK DESIGNED FOR A BETTER AESTHETIC APPEARANCE AND BUILDING INTEGRATION.
- 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.



**ASTRONERGY**  
A CHNT COMPANY

## ELECTRICAL SPECIFICATIONS

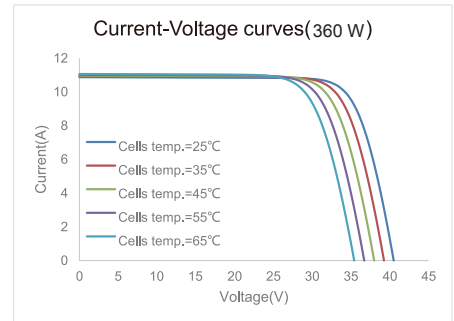
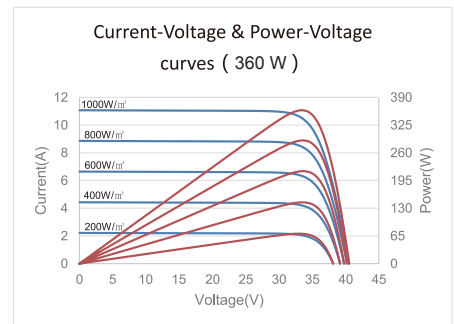
|   |                     |          |          |          |
|---|---------------------|----------|----------|----------|
| STC rated output ( $P_{mpp}$ )*             | 350 Wp              | 355 Wp   | 360 Wp   | 365 Wp   |
| Rated voltage ( $V_{mpp}$ ) at STC          | 32.99 V             | 33.24 V  | 33.49 V  | 33.73 V  |
| Rated current ( $I_{mpp}$ ) at STC          | 10.61 A             | 10.68 A  | 10.75 A  | 10.82 A  |
| Open circuit voltage ( $V_{oc}$ ) at STC    | 39.49 V             | 39.80 V  | 40.14 V  | 40.41 V  |
| Short circuit current ( $I_{sc}$ ) at STC   | 11.08 A             | 11.15 A  | 11.21 A  | 11.29 A  |
| Module efficiency                           | 18.9%               | 19.2%    | 19.5%    | 19.7%    |
| Rated output ( $P_{mpp}$ ) at NMOT          | 261.0 Wp            | 264.7 Wp | 268.5 Wp | 272.2 Wp |
| Rated voltage ( $V_{mpp}$ ) at NMOT         | 30.76 V             | 30.99 V  | 31.22 V  | 31.45 V  |
| Rated current ( $I_{mpp}$ ) at NMOT         | 8.49 A              | 8.54 A   | 8.60 A   | 8.65 A   |
| Open circuit voltage ( $V_{oc}$ ) at NMOT   | 37.12 V             | 37.42 V  | 37.74 V  | 37.99 V  |
| Short circuit current ( $I_{sc}$ ) at NMOT  | 8.91 A              | 8.97 A   | 9.02 A   | 9.08 A   |
| Temperature coefficient ( $P_{mpp}$ )       | - 0.34%/°C          |          |          |          |
| Temperature coefficient ( $I_{sc}$ )        | +0.04%/°C           |          |          |          |
| Temperature coefficient ( $V_{oc}$ )        | - 0.27%/°C          |          |          |          |
| Nominal module operating temperature (NMOT) | 44±2°C              |          |          |          |
| Maximum system voltage (IEC/UL)             | 1000V <sub>DC</sub> |          |          |          |
| Number of diodes                            | 3                   |          |          |          |
| Junction box IP rating                      | IP 68               |          |          |          |
| Maximum series fuse rating                  | 20 A                |          |          |          |

\* Measurement tolerance +/- 3%

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, AM=1.5

NMOT: Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s

## CURVE



## MECHANICAL SPECIFICATIONS

|                                |  |
|--------------------------------|--|
| Outer dimensions (L x W x H)   | 1765 x 1048 x 35 mm                    |
| Frame technology               | Aluminum, black anodized               |
| Module composition             | Glass / EVA / Backsheet (black)        |
| Front glass thickness          | 3.2 mm                                 |
| Cable length (IEC/UL)          | Portrait: 350 mm<br>Landscape: 1200 mm |
| Cable diameter (IEC/UL)        | 4 mm <sup>2</sup> / 12 AWG             |
| ① Maximum mechanical test load | 5400 Pa (front) / 2400 Pa (back)       |
| Fire performance (IEC/UL)      | Class C (IEC) or Type 1 (UL)           |
| Connector type (IEC/UL)        | MC4 (Stäubli) original                 |

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)                       | 20.0 kg      |
| ② Packing unit                               | 31 pcs / box |
| Weight of packing unit (for 40'HQ container) | 661 kg       |
| Number of modules per 40'HQ container        | 806 pcs      |

① Tolerance +/- 1.0kg

② Subject to sales contract

## MODULE DIMENSION DETAILS

