

AS-6M120-HC BLACK 360W~385W

MONOCRYSTALLINE MODULE

ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- High module conversion efficiency up to 21.10% by using innovative Half-cell design and Multi-busbar(MBB) cell technology.
- Low temperature coefficient and excellent performance under high temperature and low light conditions.
- Robust aluminum frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- High reliability against extreme environmental conditions (passing salt mist, ammonia and hail tests).
- Potential induced degradation (PID) resistance.
- Aesthetically appealing design with black backsheet and frame.

CERTIFICATIONS

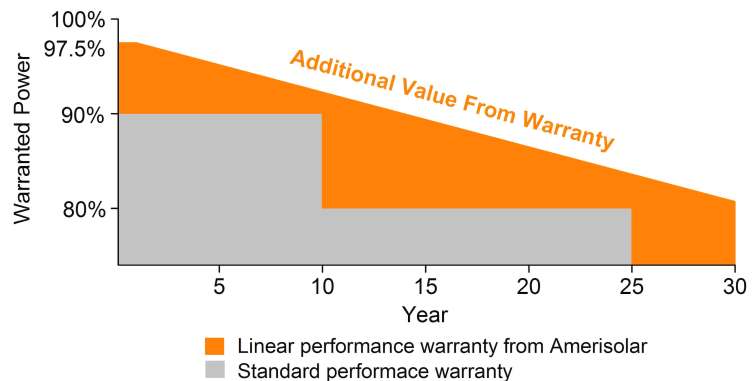


- IEC 61215, IEC 61730, UL 1703, IEC 62716, IEC 61701, IEC TS 62804, CE, CQC
- ISO 9001:2015: Quality management system
- ISO 14001:2015: Environmental management system
- ISO 45001:2018: Occupational health and safety management system

SPECIAL WARRANTY

- 20 years product warranty
- 30 years linear power output warranty

Passionately
committed to
delivering innovative
energy solution



ELECTRICAL CHARACTERISTICS AT STC

| | | | | | | |
|---------------------------------------|---|--------|--------|--------|--------|--------|
| Maximum Power (P_{max}) | 360W | 365W | 370W | 375W | 380W | 385W |
| Open Circuit Voltage (V_{OC}) | 41.2V | 41.4V | 41.6V | 41.8V | 42.0V | 42.2V |
| Short Circuit Current (I_{SC}) | 11.16A | 11.23A | 11.30A | 11.37A | 11.44A | 11.51A |
| Voltage at Maximum Power (V_{mp}) | 34.2V | 34.4V | 34.6V | 34.8V | 35.0V | 35.2V |
| Current at Maximum Power (I_{mp}) | 10.53A | 10.62A | 10.70A | 10.78A | 10.86A | 10.94A |
| Module Efficiency (%) | 19.73 | 20.01 | 20.28 | 20.55 | 20.83 | 21.10 |
| Operating Temperature | -40°C to +85°C | | | | | |
| Maximum System Voltage | 1000V DC/1500V DC | | | | | |
| Fire Resistance Rating | Type 1(in accordance with UL1703)/Class C(IEC61730) | | | | | |
| Maximum Series Fuse Rating | 20A | | | | | |

STC: Irradiance 1000W/m², Cell temperature 25°C, AM1.5; Tolerance of P_{max}: 0~+3%; Measurement Tolerance: ±3%

ELECTRICAL CHARACTERISTICS AT NOCT

| | | | | | | |
|---------------------------------------|-------|-------|-------|-------|-------|-------|
| Maximum Power (P_{max}) | 267W | 271W | 275W | 279W | 283W | 287W |
| Open Circuit Voltage (V_{OC}) | 37.8V | 38.0V | 38.2V | 38.4V | 38.6V | 38.8V |
| Short Circuit Current (I_{SC}) | 9.03A | 9.09A | 9.15A | 9.21A | 9.27A | 9.33A |
| Voltage at Maximum Power (V_{mp}) | 31.2V | 31.4V | 31.6V | 31.8V | 32.0V | 32.2V |
| Current at Maximum Power (I_{mp}) | 8.56A | 8.64A | 8.71A | 8.78A | 8.85A | 8.92A |

NOCT: Irradiance 800W/m², Ambient temperature 20°C, Wind Speed 1 m/s

MECHANICAL CHARACTERISTICS

| | |
|-------------------|--|
| Cell type | Monocrystalline PERC 166*83mm |
| Number of cells | 120 (6x20) |
| Module dimensions | 1756x1039x35mm (69.13x40.91x1.38inches) |
| Weight | 20kg (44.1lbs) |
| Front cover | 3.2mm (0.13inches) tempered glass with AR coating |
| Frame | Anodized aluminum alloy |
| Junction box | IP68, 3 diodes |
| Cable | 4mm ² (0.006inches ²), Length: Portrait: 300mm (11.81inches); Landscape: 1200mm (47.24inches) |
| Connector | MC4 or MC4 compatible |

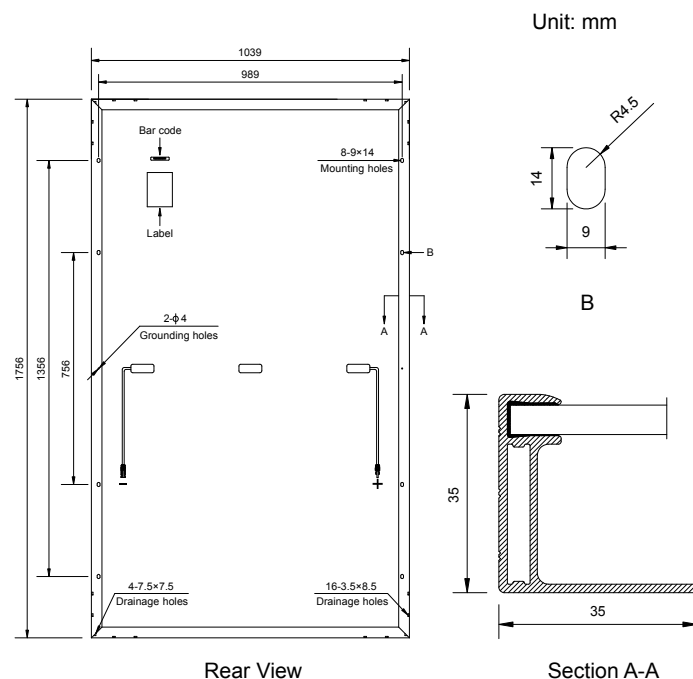
TEMPERATURE CHARACTERISTICS

| | |
|---|-----------|
| Nominal Operating Cell Temperature (NOCT) | 43°C±2°C |
| Temperature Coefficients of P_{max} | -0.36%/°C |
| Temperature Coefficients of V_{OC} | -0.28%/°C |
| Temperature Coefficients of I_{SC} | 0.05%/°C |

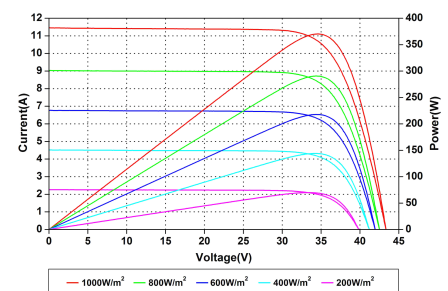
PACKAGING

| | |
|-----------------------------------|--------------|
| Standard packaging | 31pcs/pallet |
| Module quantity per 20' container | 186pcs |
| Module quantity per 40' container | 806pcs |

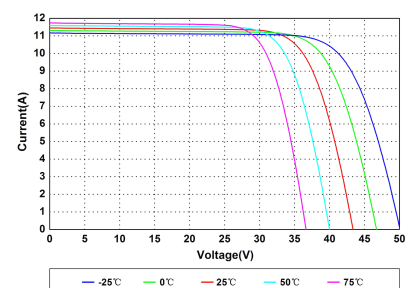
ENGINEERING DRAWINGS



IV CURVES



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures

Specifications in this datasheet are subject to change without prior notice.