

AS-6M-HC

380W~410W

MONOCRYSTALLINE MODULE

ADVANCED PERFORMANCE & PROVEN ADVANTAGES

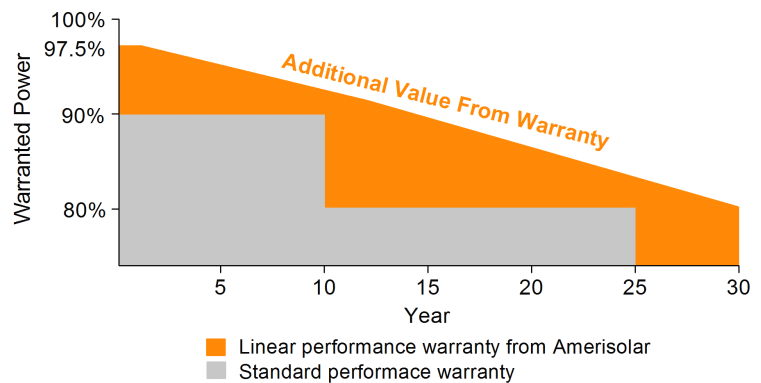
- High module conversion efficiency up to 20.36% by using innovative Half-cell design and five busbar cell technology.
- Low temperature coefficient and excellent performance under high temperature and low light conditions.
- Robust aluminum frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- High reliability against extreme environmental conditions (passing salt mist, ammonia and hail tests).
- Potential induced degradation (PID) resistance.
- Positive power tolerance of 0 ~ +3 %.

CERTIFICATIONS

- IEC 61215, IEC 61730, UL 1703, IEC 62716, IEC 61701, IEC TS 62804, CE, CQC, ETL(USA), JET(Japan), J-PEC(Japan), KS(South Korea), BIS(India), MCS(UK), CEC(Australia), CSI Eligible(CA-USA), Israel Electric(Israel), InMetro(Brazil), TSE(Turkey)
- ISO9001:2015: Quality management system
- ISO14001:2015: Environmental management system
- OHSAS18001:2007: 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}) | 380W | 385W | 390W | 395W | 400W | 405W | 410W |
| Open Circuit Voltage (V_{OC}) | 48.8V | 49.0V | 49.2V | 49.4V | 49.6V | 49.8V | 50.0V |
| Short Circuit Current (I_{SC}) | 9.97A | 10.04A | 10.11A | 10.18A | 10.25A | 10.32A | 10.39A |
| Voltage at Maximum Power (V_{mp}) | 40.4V | 40.6V | 40.8V | 41.0V | 41.2V | 41.4V | 41.6V |
| Current at Maximum Power (I_{mp}) | 9.41A | 9.49A | 9.56A | 9.64A | 9.71A | 9.79A | 9.86A |
| Module Efficiency (%) | 18.87 | 19.12 | 19.36 | 19.61 | 19.86 | 20.11 | 20.36 |
| 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

ELECTRICAL CHARACTERISTICS AT NOCT

| | | | | | | | |
|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Maximum Power (P_{max}) | 285W | 289W | 293W | 296W | 300W | 304W | 308W |
| Open Circuit Voltage (V_{OC}) | 44.9V | 45.1V | 45.3V | 45.5V | 45.7V | 45.9V | 46.1V |
| Short Circuit Current (I_{SC}) | 8.08A | 8.13A | 8.19A | 8.25A | 8.30A | 8.36A | 8.42A |
| Voltage at Maximum Power (V_{mp}) | 36.8V | 37.0V | 37.2V | 37.4V | 37.6V | 37.8V | 38.0V |
| Current at Maximum Power (I_{mp}) | 7.75A | 7.82A | 7.88A | 7.92A | 7.98A | 8.05A | 8.11A |

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

MECHANICAL CHARACTERISTICS

| | |
|-------------------|--|
| Cell type | Monocrystalline |
| Number of cells | 144 (6x24) |
| Module dimensions | 2010x1002x40mm (79.13x39.45x1.57inches) |
| Weight | 22kg (48.5lbs) |
| 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), Portrait: 300mm (11.81inches); Landscape: 1300mm (51.181inches) |
| Connector | MC4 or MC4 compatible |

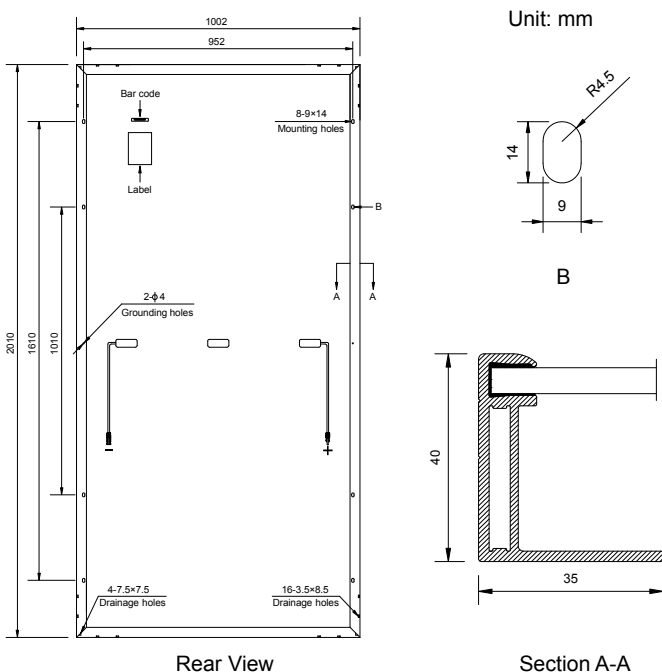
TEMPERATURE CHARACTERISTICS

| | |
|---|-----------|
| 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 |

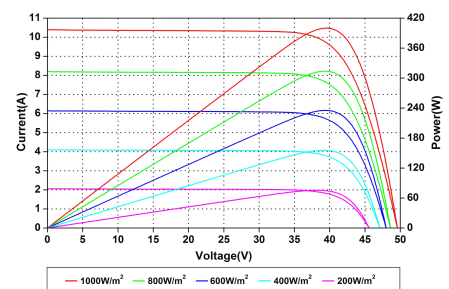
PACKAGING

| | |
|-----------------------------------|-----------------------|
| Standard packaging | 27pcs/pallet |
| Module quantity per 20' container | 270pcs |
| Module quantity per 40' container | 594pcs(GP)/649pcs(HQ) |

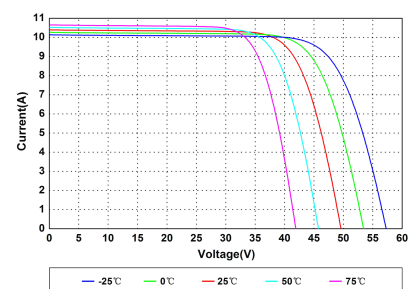
ENGINEERING DRAWINGS



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.