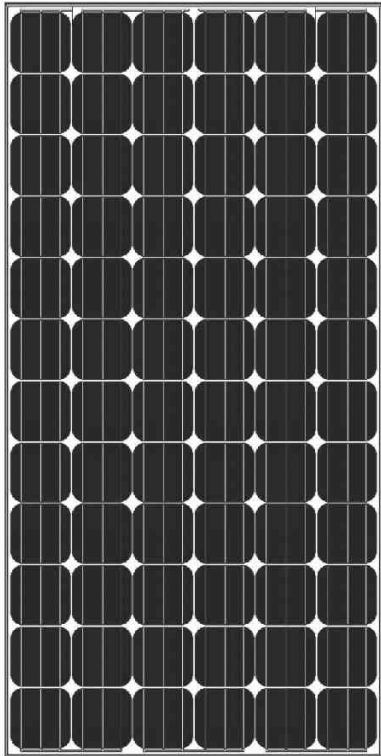




# AS-6M

## MONOCRYSTALLINE MODULE



### ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- High module conversion efficiency up to 17.01% through advanced manufacturing technology.
- Low degradation 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.
- Positive power tolerance of 0 ~ +3 %.
- High ammonia and salt mist resistance.
- Potential induced degradation (PID) resistance.

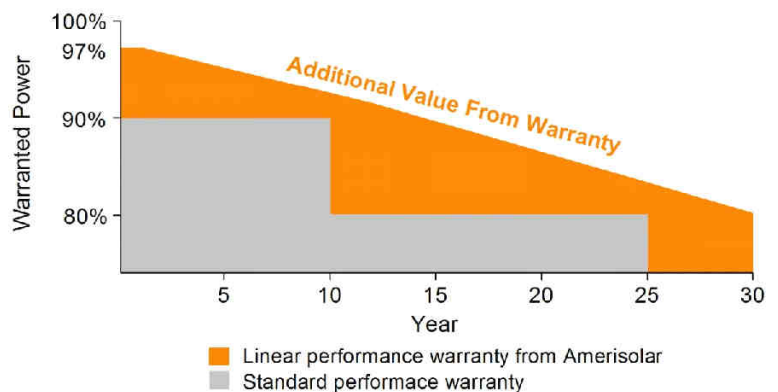
### CERTIFICATIONS

- IEC61215, IEC61730, IEC62716, IEC61701, UL1703, CE, ETL(USA), JET(Japan), J-PEC(Japan), MCS(UK), CEC(Australia), FSEC(FL-USA), CSI Eligible(CA-USA), Israel Electric(Israel), Kemco(South Korea), InMetro(Brazil), TSE(Turkey)
- ISO9001:2008: Quality management system
- ISO14001:2004: Environmental management system
- OHSAS18001:2007: Occupational health and safety management system

**Passionately  
committed to  
delivering innovative  
energy solution**

### SPECIAL WARRANTY

- 12 years limited product warranty.
- Limited linear power warranty: 12 years 91.2% of the nominal power output, 30 years 80.6% of the nominal power output.



## ELECTRICAL CHARACTERISTICS AT STC

|                                       |                                  |       |       |       |       |       |       |       |
|---------------------------------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Nominal Power ( $P_{max}$ )           | 295W                             | 300W  | 305W  | 310W  | 315W  | 320W  | 325W  | 330W  |
| Open Circuit Voltage ( $V_{OC}$ )     | 45.4V                            | 45.5V | 45.6V | 45.7V | 45.8V | 45.9V | 46.0V | 46.1V |
| Short Circuit Current ( $I_{SC}$ )    | 8.55A                            | 8.64A | 8.73A | 8.83A | 8.92A | 9.02A | 9.12A | 9.21A |
| Voltage at Nominal Power ( $V_{mp}$ ) | 36.8V                            | 36.9V | 37.0V | 37.1V | 37.2V | 37.3V | 37.4V | 37.5V |
| Current at Nominal Power ( $I_{mp}$ ) | 8.02A                            | 8.14A | 8.25A | 8.36A | 8.47A | 8.58A | 8.69A | 8.80A |
| Module Efficiency (%)                 | 15.20                            | 15.46 | 15.72 | 15.98 | 16.23 | 16.49 | 16.75 | 17.01 |
| Operating Temperature                 | -40°C to +85°C                   |       |       |       |       |       |       |       |
| Maximum System Voltage                | 1000V DC                         |       |       |       |       |       |       |       |
| Fire Resistance Rating                | Type 1(UL1703)/Class C(IEC61730) |       |       |       |       |       |       |       |
| Maximum Series Fuse Rating            | 15A                              |       |       |       |       |       |       |       |

STC: Irradiance 1000W/m<sup>2</sup>, Cell temperature 25°C, AM1.5

## ELECTRICAL CHARACTERISTICS AT NOCT

|                                       |       |       |       |       |       |       |       |       |
|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Nominal Power ( $P_{max}$ )           | 217W  | 221W  | 224W  | 228W  | 232W  | 236W  | 239W  | 243W  |
| Open Circuit Voltage ( $V_{OC}$ )     | 41.8V | 41.9V | 42.0V | 42.1V | 42.2V | 42.3V | 42.4V | 42.5V |
| Short Circuit Current ( $I_{SC}$ )    | 6.93A | 7.00A | 7.07A | 7.15A | 7.23A | 7.31A | 7.39A | 7.46A |
| Voltage at Nominal Power ( $V_{mp}$ ) | 33.5V | 33.6V | 33.7V | 33.8V | 33.9V | 34.0V | 34.1V | 34.2V |
| Current at Nominal Power ( $I_{mp}$ ) | 6.48A | 6.58A | 6.65A | 6.75A | 6.85A | 6.94A | 7.01A | 7.11A |

NOCT: Irradiance 800W/m<sup>2</sup>, Ambient temperature 20°C, Wind Speed 1 m/s

## MECHANICAL CHARACTERISTICS

|                   |  |
|-------------------|--|
| Cell type         | Monocrystalline 156x156mm (6x6inches)                              |
| Number of cells   | 72 (6x12)  |
| Module dimensions | 1956x992x50mm (77.01x39.06x1.97inches)                             |
| Weight            | 27kg (59.5lbs)   |
| Front cover       | 4.0mm (0.16inches) low-iron tempered glass                         |
| Frame             | Anodized aluminum alloy  |
| Junction box      | IP67, 3 diodes   |
| Cable             | 4mm <sup>2</sup> (0.006inches <sup>2</sup> ), 1000mm (39.37inches) |
| Connector         | MC4 or MC4 compatible  |

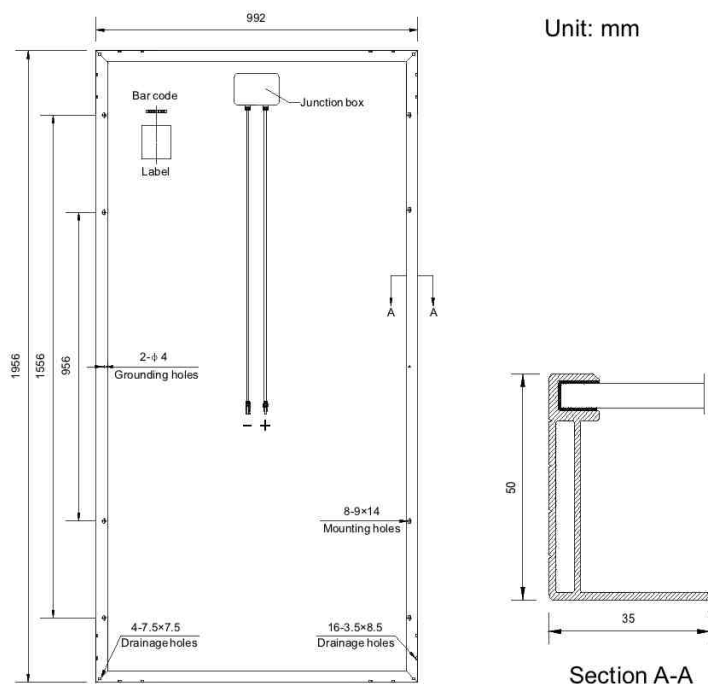
## TEMPERATURE CHARACTERISTICS

|   |           |
|---|-----------|
| Nominal Operating Cell Temperature (NOCT) | 45°C±2°C  |
| Temperature Coefficients of $P_{max}$     | -0.43%/°C |
| Temperature Coefficients of $V_{OC}$      | -0.33%/°C |
| Temperature Coefficients of $I_{SC}$      | 0.056%/°C |

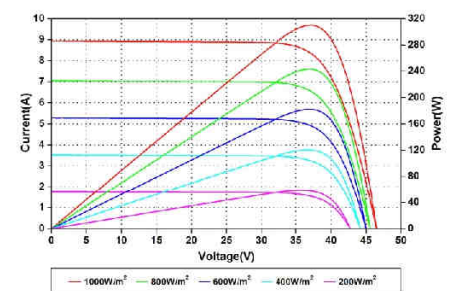
## PACKAGING

|                                   |              |
|-----------------------------------|--------------|
| Standard packaging                | 21pcs/pallet |
| Module quantity per 20' container | 210 pcs      |
| Module quantity per 40' container | 462 pcs      |

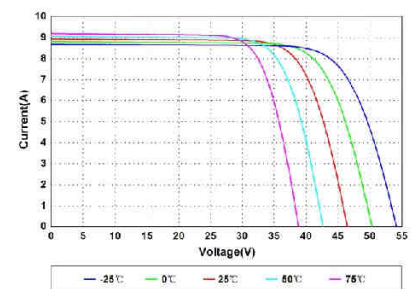
## ENGINEERING DRAWINGS



## 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.