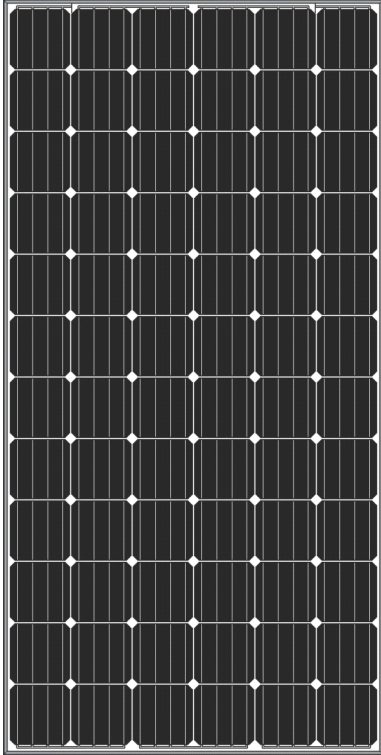




# AS-6M PERC

## MONOCRYSTALLINE MODULE



### ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- High module conversion efficiency up to 18.55% by using Passivated Emmitter Rear Contact (PERC) 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.
- High reliability against extreme environmental conditions (passing salt mist, ammonia and hail tests).
- Potential induced degradation (PID) resistance.
- Positive power tolerance of 0 ~ +3 %.

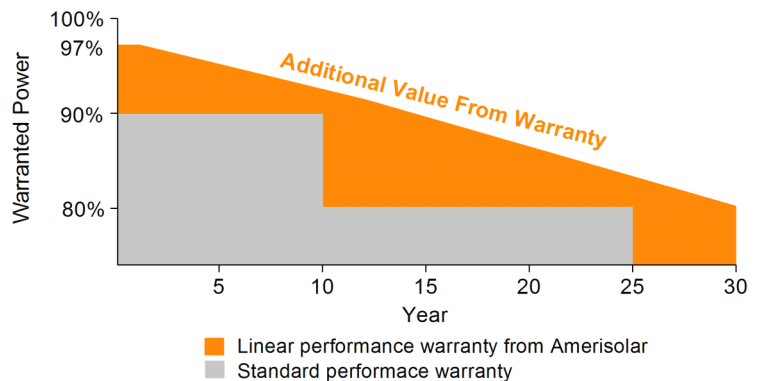
### CERTIFICATIONS

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

### 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.

Passionately  
committed to  
delivering innovative  
energy solution



## ELECTRICAL CHARACTERISTICS AT STC

|                                       |   |       |       |       |       |       |       |       |
|---------------------------------------|---|-------|-------|-------|-------|-------|-------|-------|
| Nominal Power ( $P_{max}$ )           | 325W  | 330W  | 335W  | 340W  | 345W  | 350W  | 355W  | 360W  |
| Open Circuit Voltage ( $V_{oc}$ )     | 46.0V   | 46.1V | 46.2V | 46.3V | 46.4V | 46.5V | 46.6V | 46.7V |
| Short Circuit Current ( $I_{sc}$ )    | 9.12A   | 9.21A | 9.33A | 9.45A | 9.57A | 9.68A | 9.78A | 9.89A |
| Voltage at Nominal Power ( $V_{mp}$ ) | 37.4V   | 37.5V | 37.6V | 37.7V | 37.8V | 37.9V | 38.0V | 38.1V |
| Current at Nominal Power ( $I_{mp}$ ) | 8.69A   | 8.80A | 8.91A | 9.02A | 9.13A | 9.24A | 9.35A | 9.45A |
| Module Efficiency (%)                 | 16.75   | 17.01 | 17.26 | 17.52 | 17.78 | 18.04 | 18.30 | 18.55 |
| Operating Temperature                 | -40°C to +85°C                                      |       |       |       |       |       |       |       |
| Maximum System Voltage                | 1000V DC  |       |       |       |       |       |       |       |
| Fire Resistance Rating                | Type 1(in accordance with 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 ( $P_{max}$ )           | 239W  | 243W  | 247W  | 250W  | 254W  | 258W  | 262W  | 266W  |
| Open Circuit Voltage ( $V_{oc}$ )     | 42.4V | 42.5V | 42.6V | 42.7V | 42.8V | 42.9V | 43.0V | 43.1V |
| Short Circuit Current ( $I_{sc}$ )    | 7.39A | 7.46A | 7.56A | 7.65A | 7.75A | 7.84A | 7.92A | 8.01A |
| Voltage at Nominal Power ( $V_{mp}$ ) | 34.1V | 34.2V | 34.3V | 34.4V | 34.5V | 34.6V | 34.7V | 34.8V |
| Current at Nominal Power ( $I_{mp}$ ) | 7.01A | 7.11A | 7.20A | 7.27A | 7.37A | 7.46A | 7.55A | 7.65A |

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

## MECHANICAL CHARACTERISTICS

|                   |  |
|-------------------|--|
| Cell type         | Monocrystalline PERC 156x156mm (6x6inches)                         |
| Number of cells   | 72 (6x12)  |
| Module dimensions | 1956x992x50mm (77.01x39.06x1.97inches)                             |
| Weight            | 23kg (50.7lbs)   |
| Front cover       | 3.2mm (0.13inches) tempered glass with AR coating                  |
| 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  |

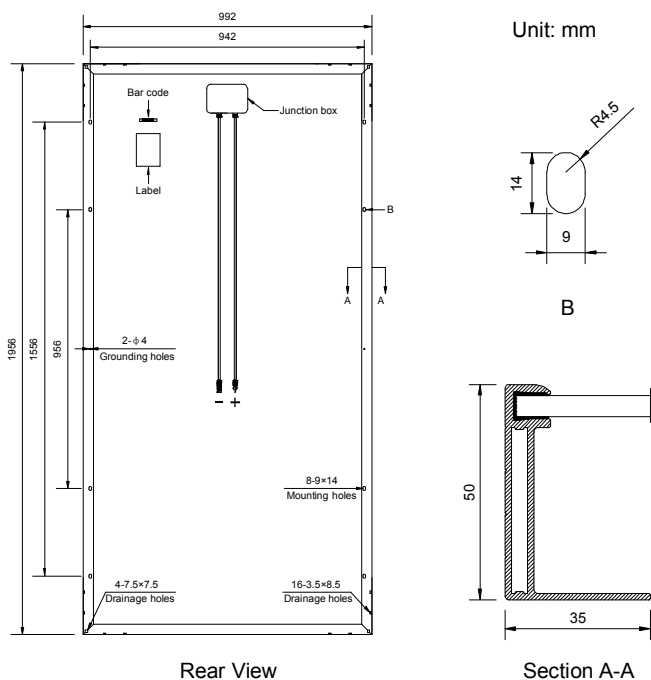
## TEMPERATURE CHARACTERISTICS

|   |           |
|---|-----------|
| Nominal Operating Cell Temperature (NOCT) | 45°C±2°C  |
| Temperature Coefficients of $P_{max}$     | -0.41%/°C |
| Temperature Coefficients of $V_{oc}$      | -0.31%/°C |
| Temperature Coefficients of $I_{sc}$      | 0.05%/°C  |

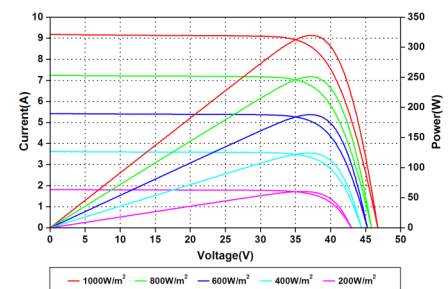
## PACKAGING

|                                   |                       |
|-----------------------------------|-----------------------|
| Standard packaging                | 21pcs/pallet          |
| Module quantity per 20' container | 210pcs                |
| Module quantity per 40' container | 462pcs(GP)/506pcs(HQ) |

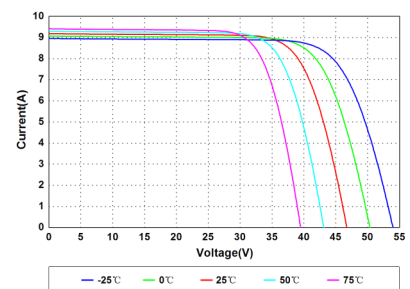
## ENGINEERING DRAWINGS



## 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.