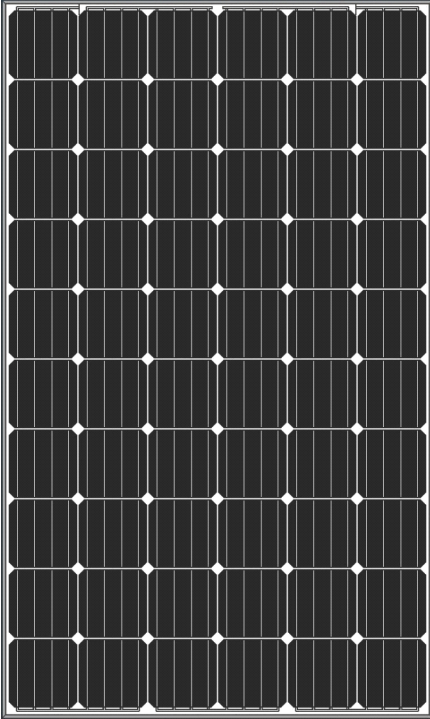




# AS-6M30

## MONOCRYSTALLINE MODULE



### ADVANCED PERFORMANCE & PROVEN ADVANTAGES

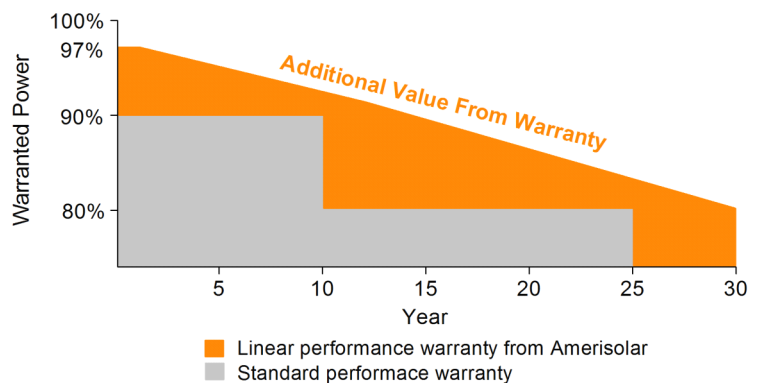
- High module conversion efficiency up to 17.83% by using high efficient solar cells and advanced manufacturing technology.
- Low degradation and excellent performance under high temperature and low light conditions.
- Robust aluminum frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- 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 ( $P_{max}$ )           | 255W  | 260W  | 265W  | 270W  | 275W  | 280W  | 285W  | 290W  |
| Open Circuit Voltage ( $V_{oc}$ )     | 37.9V   | 38.0V | 38.1V | 38.2V | 38.3V | 38.4V | 38.5V | 38.6V |
| Short Circuit Current ( $I_{sc}$ )    | 8.76A   | 8.88A | 9.00A | 9.12A | 9.24A | 9.37A | 9.49A | 9.62A |
| Voltage at Nominal Power ( $V_{mp}$ ) | 30.8V   | 30.9V | 31.0V | 31.1V | 31.2V | 31.3V | 31.4V | 31.5V |
| Current at Nominal Power ( $I_{mp}$ ) | 8.28A   | 8.42A | 8.55A | 8.69A | 8.82A | 8.95A | 9.08A | 9.21A |
| Module Efficiency (%)                 | 15.67   | 15.98 | 16.29 | 16.60 | 16.90 | 17.21 | 17.52 | 17.83 |
| 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 ( $P_{max}$ )           | 189W  | 192W  | 196W  | 200W  | 204W  | 207W  | 211W  | 215W  |
| Open Circuit Voltage ( $V_{oc}$ )     | 34.9V | 35.0V | 35.1V | 35.2V | 35.3V | 35.4V | 35.5V | 35.6V |
| Short Circuit Current ( $I_{sc}$ )    | 7.10A | 7.19A | 7.29A | 7.39A | 7.48A | 7.59A | 7.69A | 7.79A |
| Voltage at Nominal Power ( $V_{mp}$ ) | 28.0V | 28.1V | 28.2V | 28.3V | 28.4V | 28.5V | 28.6V | 28.7V |
| Current at Nominal Power ( $I_{mp}$ ) | 6.75A | 6.84A | 6.95A | 7.07A | 7.19A | 7.27A | 7.38A | 7.50A |

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   | 60 (6x10)   |
| Module dimensions | 1640x992x40mm (64.57x39.06x1.57inches)                            |
| Weight            | 18.5kg (40.8lbs)  |
| 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> ), 900mm (35.43inches) |
| Connector         | MC4 or MC4 compatible   |

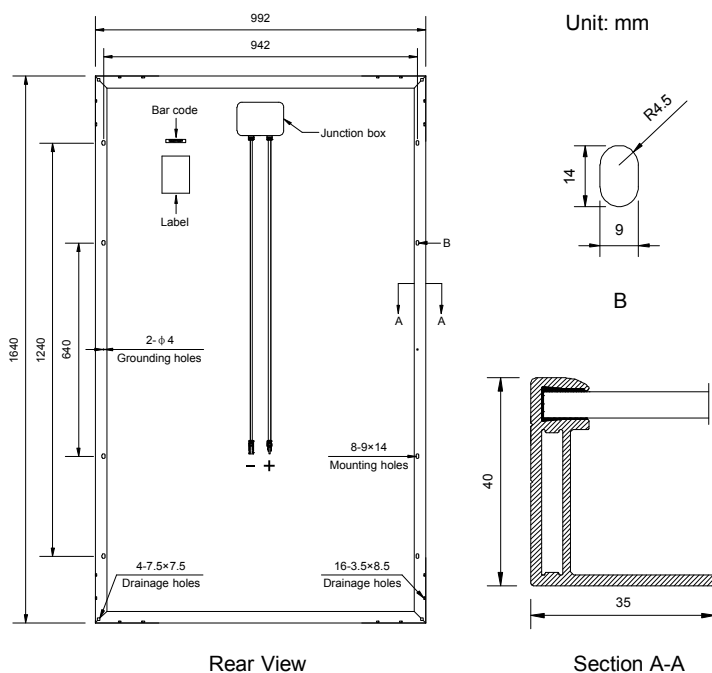
## TEMPERATURE CHARACTERISTICS

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

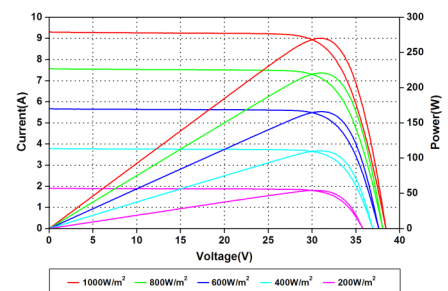
## PACKAGING

|                                   |                       |
|-----------------------------------|-----------------------|
| Standard packaging                | 26pcs/pallet          |
| Module quantity per 20' container | 312pcs                |
| Module quantity per 40' container | 728pcs(GP)/784pcs(HQ) |

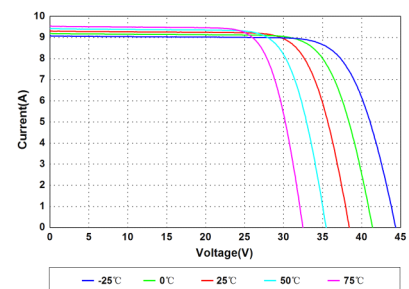
## ENGINEERING DRAWINGS



## 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.