

# AS-6P30

## 270W~300W

### POLYCRYSTALLINE MODULE

#### ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- High module conversion efficiency up to 18.44% through innovative five busbar cell 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 3600Pa and snow loads up to 5400Pa.
- High reliability against extreme environmental conditions (passing salt mist, ammonia and hail tests).
- Potential induced degradation (PID) resistance.

#### CERTIFICATIONS

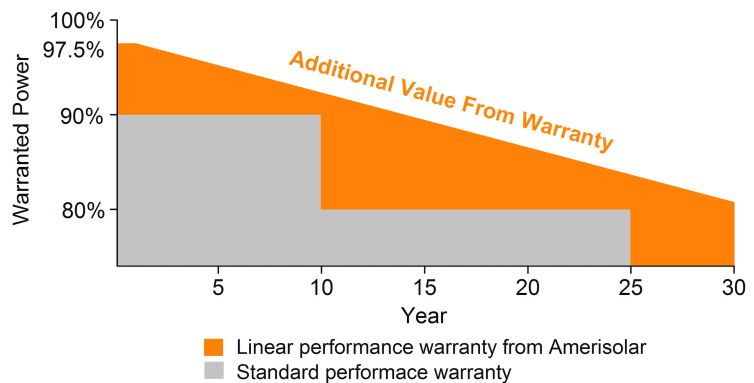
- IEC 61215, IEC 61730, UL 1703, IEC 62716, IEC 61701, IEC TS 62804, CE, CQC, ETL(USA), JET(Japan), J-PEC(Japan), KS(South Korea), BIS(India), MCS(UK), CEC(Australia), CSI Eligible(CA-USA), Israel Electric(Israel), InMetro(Brazil), TSE(Turkey)
- ISO 9001:2015: Quality management system
- ISO 14001:2015: 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 ( $P_{max}$ )           | 270W  | 275W  | 280W  | 285W  | 290W  | 295W  | 300W  |
| Open Circuit Voltage ( $V_{OC}$ )     | 38.4V   | 38.6V | 38.8V | 39.0V | 39.2V | 39.4V | 39.6V |
| Short Circuit Current ( $I_{SC}$ )    | 9.15A   | 9.26A | 9.37A | 9.48A | 9.59A | 9.70A | 9.80A |
| Voltage at Maximum Power ( $V_{mp}$ ) | 31.2V   | 31.4V | 31.6V | 31.8V | 32.0V | 32.2V | 32.4V |
| Current at Maximum Power ( $I_{mp}$ ) | 8.66A   | 8.76A | 8.87A | 8.97A | 9.07A | 9.17A | 9.26A |
| Module Efficiency (%)                 | 16.60   | 16.90 | 17.21 | 17.52 | 17.83 | 18.13 | 18.44 |
| Operating Temperature                 | -40°C to +85°C  |       |       |       |       |       |       |
| Maximum System Voltage                | 1000V DC/1500V DC                                     |       |       |       |       |       |       |
| Fire Resistance Rating                | Type 1(in accordance with UL 1703)/Class C(IEC 61730) |       |       |       |       |       |       |
| Maximum Series Fuse Rating            | 15A   |       |       |       |       |       |       |

STC: Irradiance 1000W/m<sup>2</sup>, Cell temperature 25°C, AM1.5; Tolerance of P<sub>max</sub>: ±3%; Measurement Tolerance: ±3%

## ELECTRICAL CHARACTERISTICS AT NOCT

|                                       |       |       |       |       |       |       |       |
|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Maximum Power ( $P_{max}$ )           | 200W  | 204W  | 207W  | 211W  | 215W  | 218W  | 222W  |
| Open Circuit Voltage ( $V_{OC}$ )     | 35.3V | 35.5V | 35.7V | 35.9V | 36.1V | 36.3V | 36.5V |
| Short Circuit Current ( $I_{SC}$ )    | 7.41A | 7.50A | 7.59A | 7.68A | 7.77A | 7.86A | 7.94A |
| Voltage at Maximum Power ( $V_{mp}$ ) | 28.4V | 28.6V | 28.8V | 29.0V | 29.2V | 29.4V | 29.6V |
| Current at Maximum Power ( $I_{mp}$ ) | 7.05A | 7.14A | 7.19A | 7.28A | 7.37A | 7.42A | 7.50A |

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

## MECHANICAL CHARACTERISTICS

|                   |   |
|-------------------|---|
| Cell type         | Polycrystalline 6inch   |
| Number of cells   | 60 (6x10)   |
| Module dimensions | 1640x992x35mm (64.57x39.06x1.38inches)                            |
| Weight            | 17.5kg (38.6lbs)  |
| 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   |

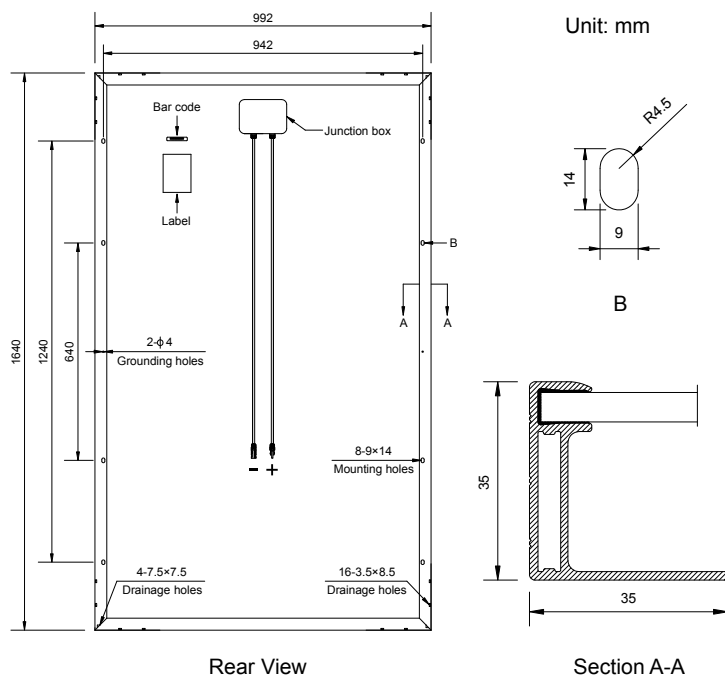
## TEMPERATURE CHARACTERISTICS

|   |           |
|---|-----------|
| Nominal Operating Cell Temperature (NOCT) | 45°C±2°C  |
| Temperature Coefficients of $P_{max}$     | -0.39%/°C |
| Temperature Coefficients of $V_{OC}$      | -0.30%/°C |
| Temperature Coefficients of $I_{SC}$      | 0.05%/°C  |

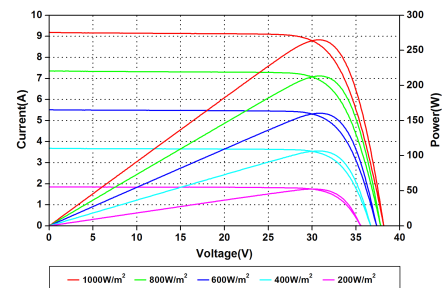
## PACKAGING

|                                   |                       |
|-----------------------------------|-----------------------|
| Standard packaging                | 31pcs/pallet          |
| Module quantity per 20' container | 372pcs                |
| Module quantity per 40' container | 868pcs(GP)/952pcs(HQ) |

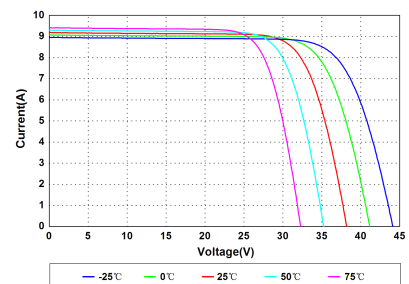
## ENGINEERING DRAWINGS



## 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.