



## AS-6M30

Amerisolar's photovoltaic modules are designed for large electrical power requirements. With a 30-year warranty, AS-6M30 offers higher-powered, more reliable performance for both on-grid and off-grid solar projects.

### Key Features

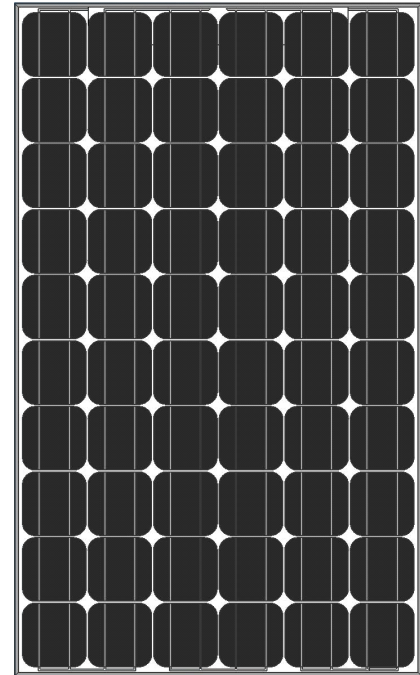
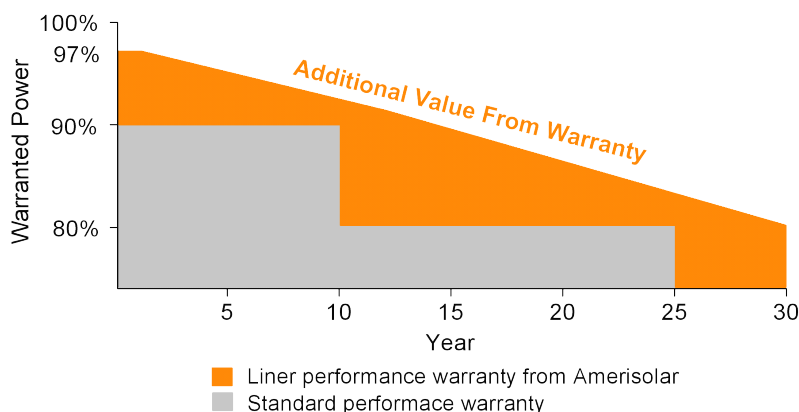
- High module conversion efficiency up to 15.13% through superior manufacturing technology.
- Low degradation and excellent performance under high temperature and low light conditions.
- Robust aluminum frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- Positive power tolerance of 0 ~ +3 %.
- High ammonia and salt mist resistance.

### Quality Certificates

- IEC61215, IEC61730, IEC62716, IEC61701, UL1703, CE, MCS, CEC, Israel Electric, Kemco
- ISO9001:2008: Quality management system
- ISO14001:2004: Environmental management system
- OHSAS18001:2007: Occupational health and safety management system

### Special Warranties

- 12 year limited product warranty.
- Limited 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

| Electrical parameters at STC          |       |       |       |       |       |
|---------------------------------------|-------|-------|-------|-------|-------|
| Nominal Power ( $P_{max}$ )           | 230W  | 235W  | 240W  | 245W  | 250W  |
| Open Circuit Voltage ( $V_{OC}$ )     | 36.9V | 37.0V | 37.1V | 37.2V | 37.3V |
| Short Circuit Current ( $I_{SC}$ )    | 8.31A | 8.42A | 8.52A | 8.62A | 8.72A |
| Voltage at Nominal Power ( $V_{mp}$ ) | 30.2V | 30.3V | 30.3V | 30.4V | 30.5V |
| Current at Nominal Power ( $I_{mp}$ ) | 7.62A | 7.76A | 7.92A | 8.06A | 8.20A |
| Module Efficiency (%)                 | 13.92 | 14.23 | 14.53 | 14.83 | 15.13 |

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

| Electrical parameters at NOCT         |       |       |       |       |       |
|---------------------------------------|-------|-------|-------|-------|-------|
| Nominal Power ( $P_{max}$ )           | 168W  | 172W  | 175W  | 179W  | 183W  |
| Open Circuit Voltage ( $V_{OC}$ )     | 33.9V | 34.0V | 34.1V | 34.2V | 34.3V |
| Short Circuit Current ( $I_{SC}$ )    | 6.73A | 6.82A | 6.90A | 6.98A | 7.06A |
| Voltage at Nominal Power ( $V_{mp}$ ) | 27.5V | 27.6V | 27.6V | 27.7V | 27.8V |
| Current at Nominal Power ( $I_{mp}$ ) | 6.11A | 6.24A | 6.35A | 6.47A | 6.59A |

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

## Mechanical Characteristics

|                               |                               |
|-------------------------------|-------------------------------|
| Cell type                     | Monocrystalline 156x156mm     |
| Number of cells               | 60 (6x10)                     |
| Module dimension              | 1652x1000x50mm                |
| Weight                        | 22kg                          |
| Front cover                   | 3.2mm low-iron tempered glass |
| Frame                         | Anodized aluminum alloy       |
| Junction box                  | IP67, 6 diodes                |
| Cable                         | 4mm <sup>2</sup> , 900mm      |
| Connector                     | MC4 or MC4 compatible         |
| Standard packaging            | 20pcs/pallet                  |
| Module quantity per container | 520pcs/40'HQ                  |

## Temperature Characteristics

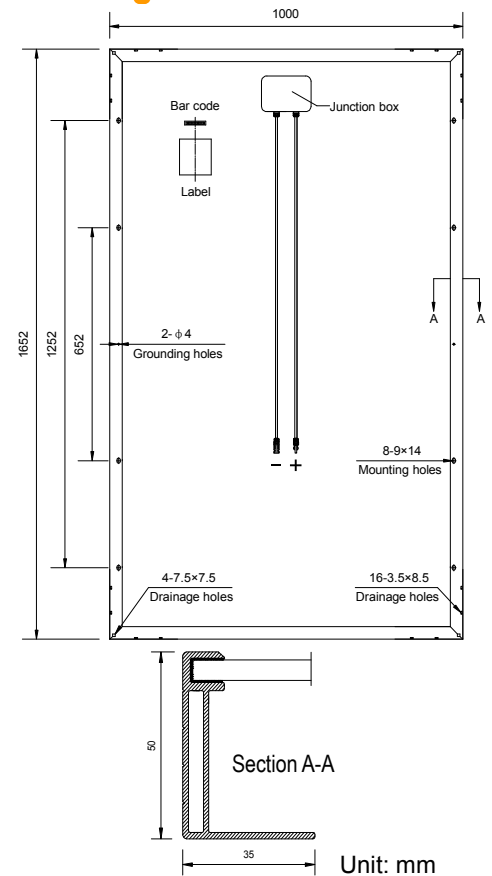
|   |           |
|---|-----------|
| Nominal Operating Cell Temperature (NOCT) | 45°C±2°C  |
| Temperature Coefficients of $P_{max}$     | -0.43%/°C |
| Temperature Coefficients of $V_{OC}$      | -0.33%/°C |
| Temperature Coefficients of $I_{SC}$      | 0.056%/°C |

## Maximum Ratings

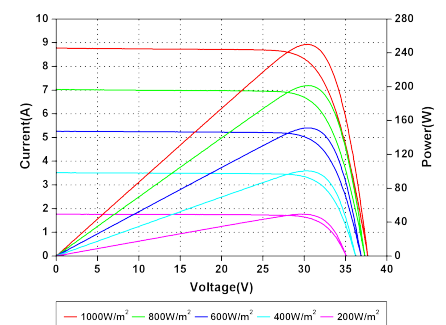
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|----------------------------|----------------|
| Operating Temperature      | -40°C to +85°C |
| Maximum System Voltage     | 1000V DC       |
| Maximum Series Fuse Rating | 15A            |

Specifications in this datasheet are subject to change without prior notice.

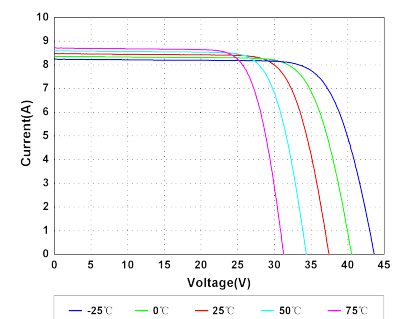
## Drawings



## I-V Curves



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures

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