



New Energy

New World

## Worldwide Energy and Manufacturing USA Co., Limited

### AS-6P

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

#### Key Features

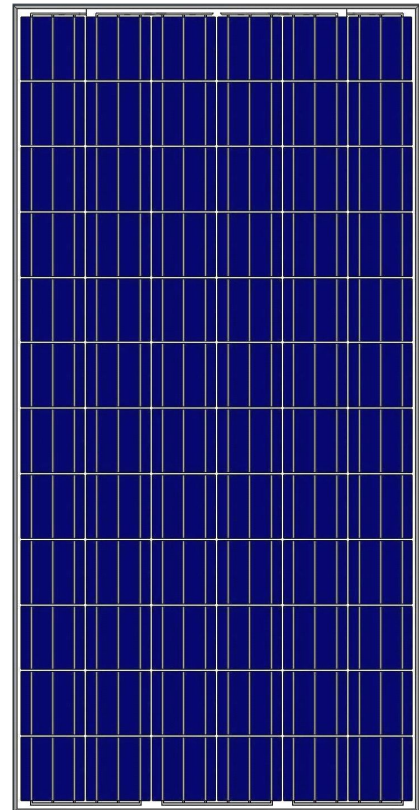
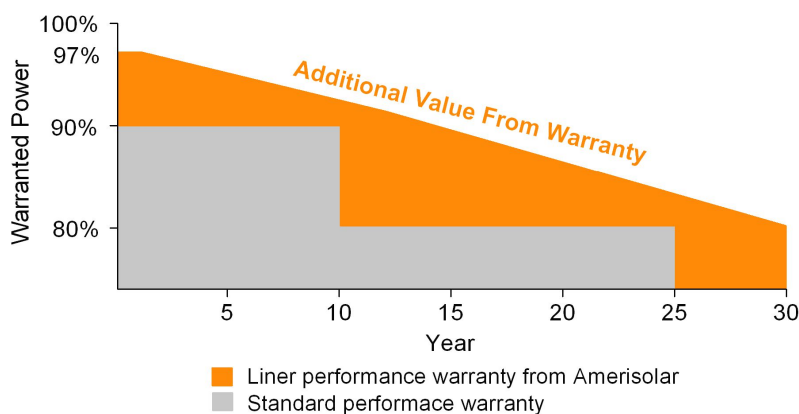
- High module conversion efficiency up to 17.01% through superior manufacturing technology.
- Low degradation and excellent performance under high temperature and low light conditions.
- Robust aluminum frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- Positive power tolerance of 0 ~ +3 %.
- High ammonia and salt mist resistance.

#### Quality Certificates

- IEC61215, IEC61730, IEC62716, IEC61701, UL1703, JET, 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.



Clean Energy Council



Passionately committed to delivering innovative energy solution

[www.weamerisolar.com](http://www.weamerisolar.com)

## Electrical Characteristics

Electrical parameters at STC								
Nominal Power ( $P_{max}$ )	295W	300W	305W	310W	315W	320W	325W	330W
Open Circuit Voltage ( $V_{oc}$ )	45.2V	45.3V	45.4V	45.5V	45.6V	45.7V	45.8V	45.9V
Short Circuit Current ( $I_{sc}$ )	8.60A	8.68A	8.76A	8.85A	8.93A	9.00A	9.08A	9.16A
Voltage at Nominal Power ( $V_{mp}$ )	36.6V	36.7V	36.8V	36.9V	37.0V	37.1V	37.2V	37.3V
Current at Nominal Power ( $I_{mp}$ )	8.07A	8.18A	8.29A	8.41A	8.52A	8.63A	8.74A	8.85A
Module Efficiency (%)	15.20	15.46	15.72	15.98	16.23	16.49	16.75	17.01

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

Electrical parameters at NOCT								
Nominal Power ( $P_{max}$ )	215W	219W	223W	226W	230W	234W	237W	241W
Open Circuit Voltage ( $V_{oc}$ )	41.6V	41.7V	41.8V	41.9V	42.0V	42.0V	42.1V	42.2V
Short Circuit Current ( $I_{sc}$ )	6.97A	7.03A	7.10A	7.17A	7.23A	7.29A	7.35A	7.42A
Voltage at Nominal Power ( $V_{mp}$ )	33.3V	33.4V	33.5V	33.6V	33.7V	33.8V	33.9V	34.0V
Current at Nominal Power ( $I_{mp}$ )	6.46A	6.56A	6.66A	6.73A	6.83A	6.93A	7.00A	7.09A

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

## Mechanical Characteristics

Cell type	Polycrystalline 156x156mm
Number of cells	72(6x12)
Module dimension	1956x992x50mm
Weight	27kg
Front cover	4.0mm low-iron tempered glass
Frame	Anodized aluminum alloy
Junction box	IP67, 6 diodes
Cable	4mm <sup>2</sup> , 1000mm
Connector	MC4 or MC4 compatible
Standard packaging	20pcs/pallet
Module quantity per container	440pcs/40'HQ

## Temperature Characteristics

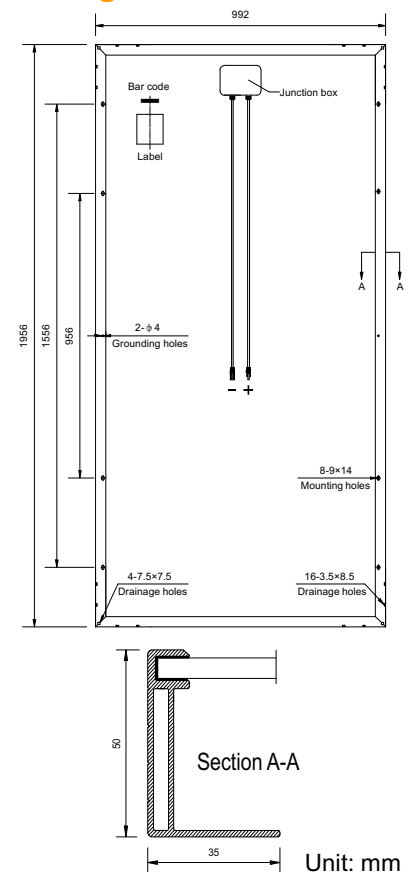
Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficients of $P_{max}$	-0.43%/°C
Temperature Coefficients of $V_{oc}$	-0.33%/°C
Temperature Coefficients of $I_{sc}$	0.056%/°C

## Maximum Ratings

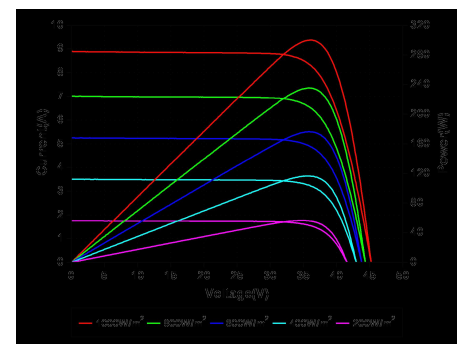
Operating Temperature	-40°C to +85°C
Maximum System Voltage	1000V DC
Maximum Series Fuse Rating	15A

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

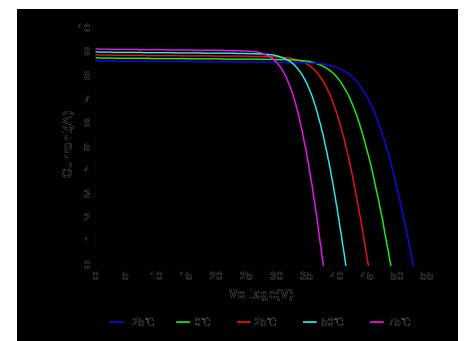
## Drawings



## I-V Curves



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures

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