



# Worldwide Energy and Manufacturing USA Co., Limited

## AS-6P30

Amerisolar's photovoltaic modules are designed for large electrical power requirements. With a 30-year warranty, AS-6P30 offers higher-powered, more reliable performance for both on-grid and off-grid solar projects.

### Key Features

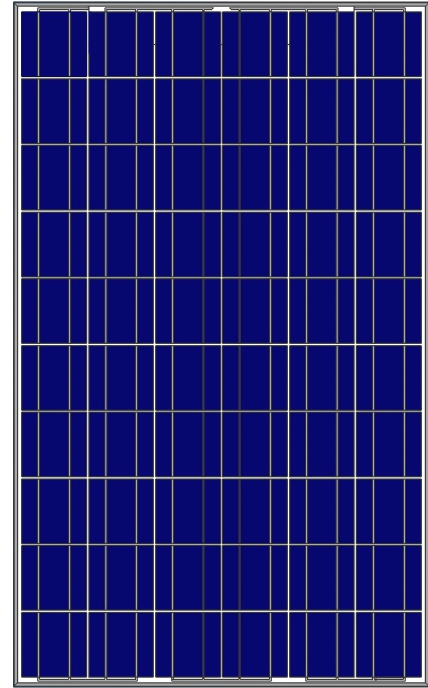
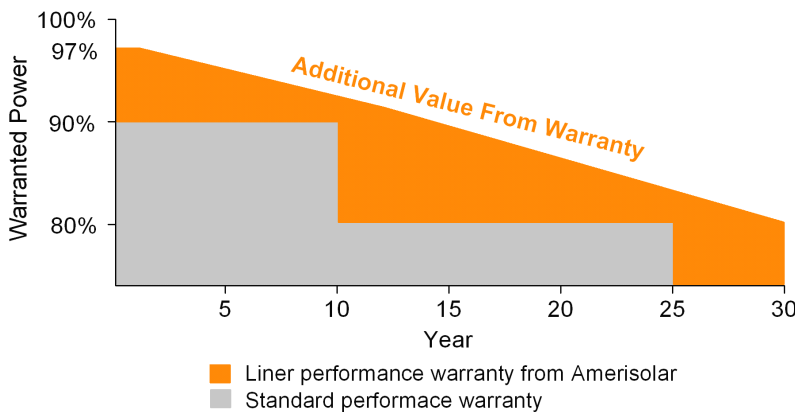
- High module conversion efficiency up to 15.59% through superior manufacturing technology.
- Low degradation and excellent performance under high temperature and low light conditions.
- Robust aluminum frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- Positive 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	255W
Open Circuit Voltage ( $V_{OC}$ )	37.2V	37.3V	37.5V	37.7V	37.9V	38.0V
Short Circuit Current ( $I_{SC}$ )	8.31A	8.40A	8.48A	8.56A	8.64A	8.72A
Voltage at Nominal Power ( $V_{mp}$ )	29.3V	29.5V	29.7V	29.9V	30.1V	30.3V
Current at Nominal Power ( $I_{mp}$ )	7.85A	7.97A	8.08A	8.20A	8.31A	8.42A
Module Efficiency (%)	14.07	14.37	14.68	14.98	15.29	15.59

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	183 W	186W
Open Circuit Voltage ( $V_{OC}$ )	34.2V	34.3V	34.5V	34.7V	34.9 V	35.0V
Short Circuit Current ( $I_{SC}$ )	6.73A	6.80A	6.87A	6.93A	7.00A	7.06A
Voltage at Nominal Power ( $V_{mp}$ )	26.7V	26.8V	27.0V	27.2 V	27.4 V	27.6 V
Current at Nominal Power ( $I_{mp}$ )	6.30A	6.42A	6.49A	6.59A	6.68 A	6.74 A

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	60 (6x10)
Module dimension	1650x991x46mm
Weight	19.5kg
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	21pcs/pallet
Module quantity per container	546pcs/40'HQ

## Temperature Characteristics

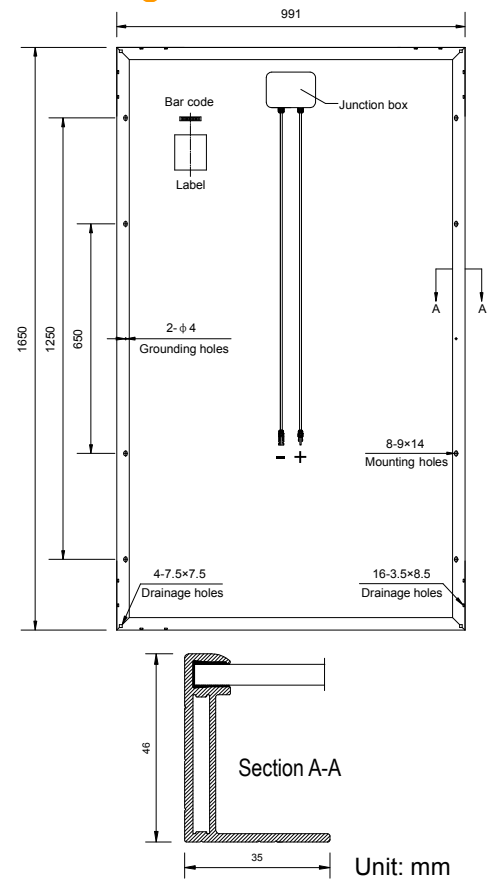
Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficients of $P_{max}$	-0.43%/°C
Temperature Coefficients of $V_{OC}$	-0.33%/°C
Temperature Coefficients of $I_{SC}$	0.056%/°C

## Maximum Ratings

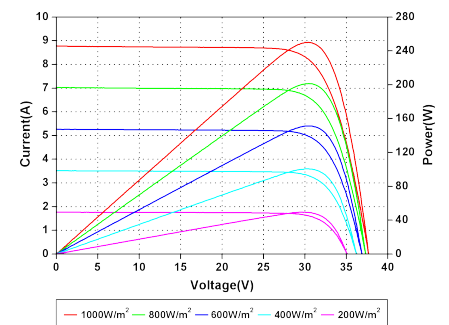
Operating Temperature	-40°C to +85°C
Maximum System Voltage	1000V DC
Maximum Series Fuse Rating	15A

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

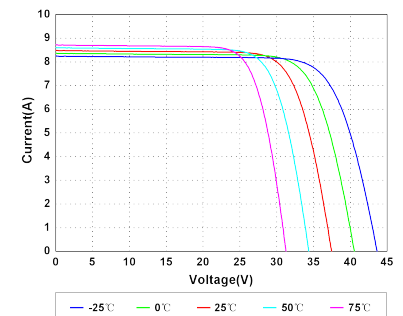
## Drawings



## I-V Curves



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures

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