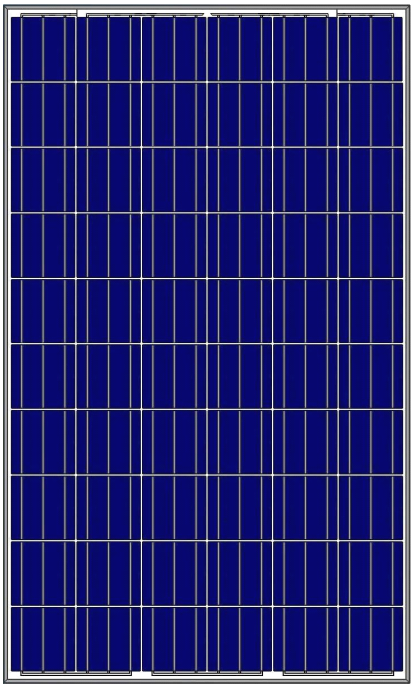
New Energy

New World

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

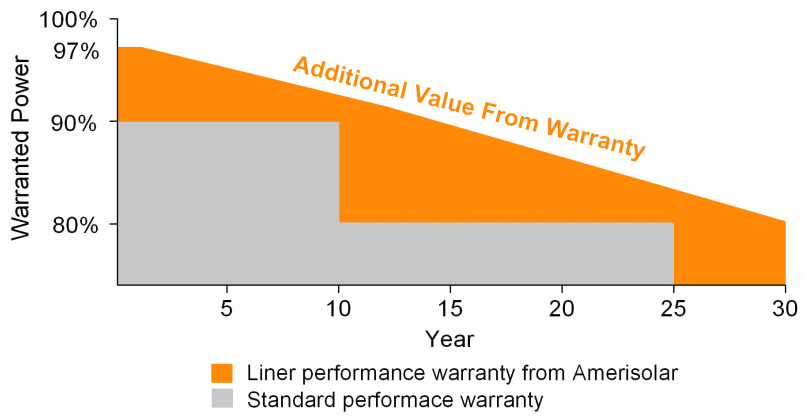
- High module conversion efficiency up to 16.29% through superior manufacturing technology.
- Low degradation and excellent performance under high temperature and low light conditions.
- Robust aluminum frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- Positive 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

www.weamerisolar.com

Electrical Characteristics

Electrical parameters at STC							
Nominal Power (P_{max})	235W	240W	245W	250W	255W	260W	265W
Open Circuit Voltage (V_{OC})	37.5V	37.7V	37.9V	38.0V	38.1V	38.2V	38.3V
Short Circuit Current (I_{SC})	8.48A	8.57A	8.66A	8.75A	8.83A	8.90A	8.98A
Voltage at Nominal Power (V_{mp})	29.7V	29.9V	30.1V	30.3V	30.5V	30.7V	30.9V
Current at Nominal Power (I_{mp})	7.92A	8.03A	8.14A	8.26A	8.37A	8.47A	8.58A
Module Efficiency (%)	14.44	14.75	15.06	15.37	15.67	15.98	16.29

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

Electrical parameters at NOCT							
Nominal Power (P_{max})	172W	175W	179W	183W	186W	190W	194W
Open Circuit Voltage (V_{OC})	34.5V	34.7V	34.9V	35.0V	35.1V	35.2V	35.3V
Short Circuit Current (I_{SC})	6.87A	6.94A	7.01A	7.09A	7.15A	7.21A	7.27A
Voltage at Nominal Power (V_{mp})	27.0V	27.2V	27.4V	27.6V	27.8V	27.9V	28.1V
Current at Nominal Power (I_{mp})	6.38A	6.44A	6.54A	6.64A	6.70A	6.81A	6.91A

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

Mechanical Characteristics

Cell type	Polycrystalline 156x156mm(6x6inches)
Number of cells	60 (6x10)
Module dimension	1640x992x40mm(64.57x39.06x1.57inches)
Weight	18.5kg(40.8lbs)
Front cover	3.2mm(0.13inches) low-iron tempered glass
Frame	Anodized aluminum alloy
Junction box	IP67, 6 diodes
Cable	4mm^2(0.006inches^2), 900mm(35.43inches)
Connector	MC4 or MC4 compatible
Standard packaging	26pcs/pallet
Module quantity per container	728pcs/40'HQ

Temperature Characteristics

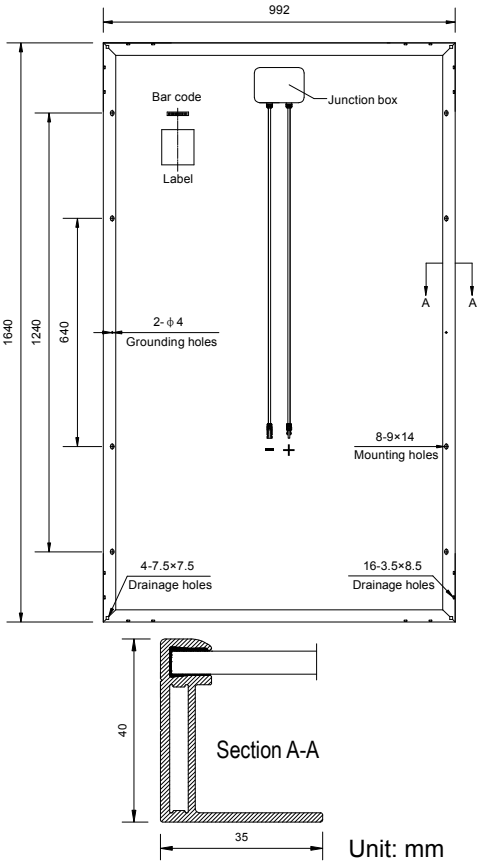
Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficients of P_{max}	-0.43%/°C
Temperature Coefficients of V_{OC}	-0.33%/°C
Temperature Coefficients of I_{SC}	0.056%/°C

Maximum Ratings

Operating Temperature	-40°C to +85°C
Maximum System Voltage	600V DC
Maximum Series Fuse Rating	15A

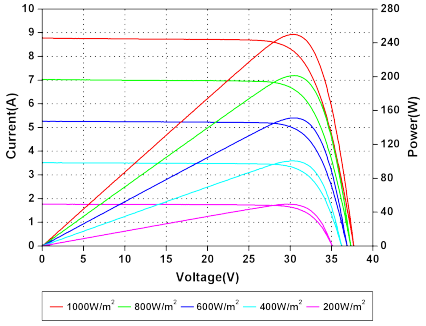
Specifications in this datasheet are subject to change without prior notice.

Drawings

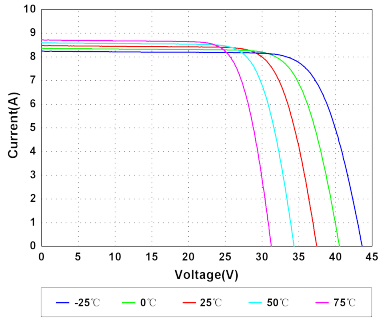


Unit: mm

I-V Curves



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures

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