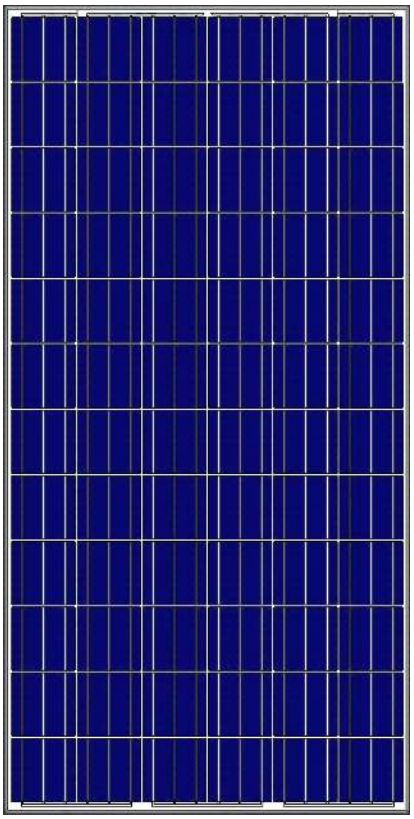
New Energy

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 higher-powered, more reliable performance for both on-grid and off-grid solar projects.



Key Features

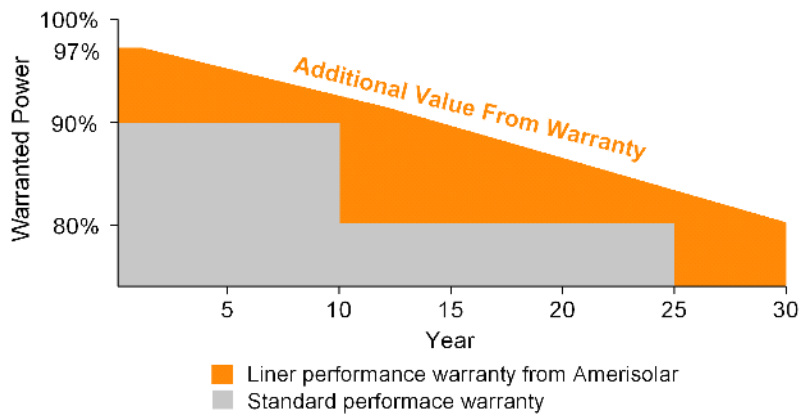
- High module conversion efficiency up to 16.23% through superior manufacturing technology.
- Low degradation and excellent performance under high temperature and low light conditions.
- Robust aluminum frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- Positive 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



Passionately committed to delivering innovative energy solution

www.weamerisolar.com

Electrical Characteristics

Electrical parameters at STC							
Nominal Power (P_{max})	285W	290W	295W	300W	305W	310W	315W
Open Circuit Voltage (V_{OC})	45.0V	45.1V	45.2V	45.3V	45.4V	45.5V	45.6V
Short Circuit Current (I_{SC})	8.44A	8.52A	8.60A	8.68A	8.76A	8.85A	8.93A
Voltage at Nominal Power (V_{mp})	36.4V	36.5V	36.6V	36.7V	36.8V	36.9V	37.0V
Current at Nominal Power (I_{mp})	7.83A	7.95A	8.07A	8.18A	8.29A	8.41A	8.52A
Module Efficiency (%)	14.69	14.95	15.20	15.46	15.72	15.98	16.23

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

Electrical parameters at NOCT							
Nominal Power (P_{max})	208W	212W	215W	219W	223W	226W	230W
Open Circuit Voltage (V_{OC})	41.4V	41.5V	41.6V	41.7V	41.8V	41.9V	42.0V
Short Circuit Current (I_{SC})	6.84A	6.90A	6.97A	7.03A	7.10A	7.17A	7.23A
Voltage at Nominal Power (V_{mp})	33.1V	33.2V	33.3V	33.4V	33.5V	33.6V	33.7V
Current at Nominal Power (I_{mp})	6.29A	6.39A	6.46A	6.56A	6.66A	6.73A	6.83A

NOCT: Irradiance 800W/m^2, 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^2, 1000mm
Connector	MC4 or MC4 compatible
Standard packaging	20pcs/pallet
Module quantity per container	440pcs/40'HQ

Temperature Characteristics

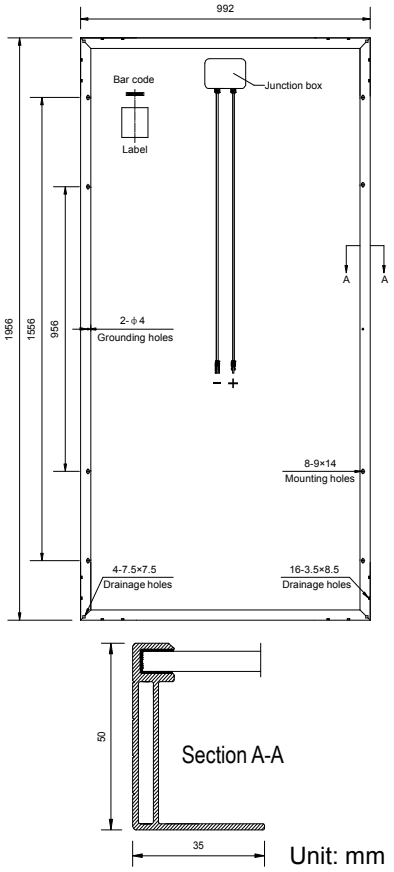
Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficients of P_{max}	-0.43%/°C
Temperature Coefficients of V_{OC}	-0.33%/°C
Temperature Coefficients of I_{SC}	0.056%/°C

Maximum Ratings

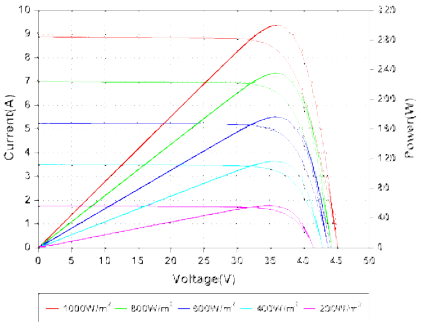
Operating Temperature	-40°C to +85°C
Maximum System Voltage	1000V DC
Maximum Series Fuse Rating	15A

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

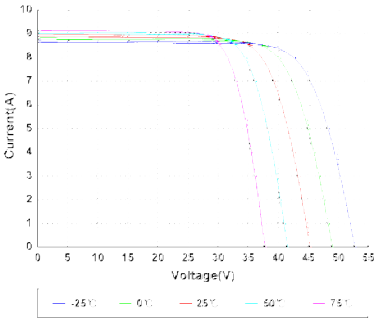
Drawings



I-V Curves



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures

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