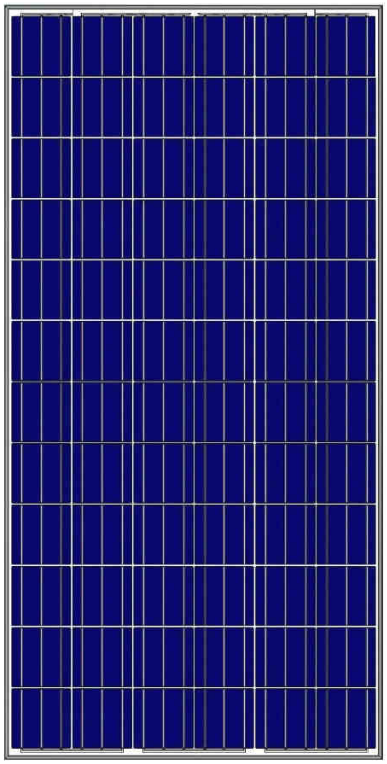
Amerisolar | New Energy New World ®

AS-6P

POLYCRYSTALLINE MODULE



Passionately committed to delivering innovative energy solution

ADVANCED PERFORMANCE & PROVEN ADVANTAGES

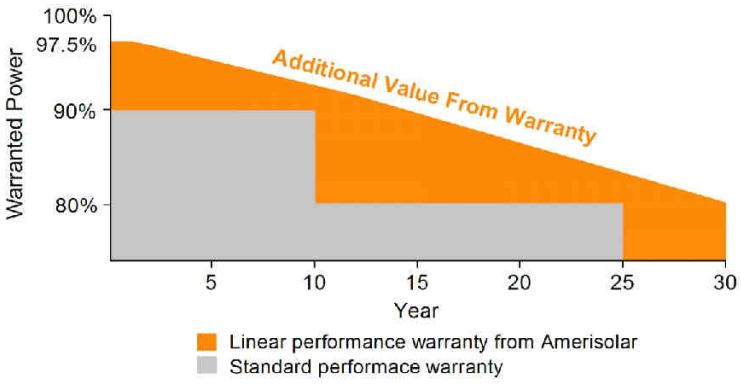
- High module conversion efficiency up to 17.01% through advanced manufacturing technology.
- Low degradation and excellent performance under high temperature and low light conditions.
- Robust aluminum frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- Positive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

CERTIFICATIONS

- IEC61215, IEC61730, IEC62716, IEC61701, UL1703, CE, ETL(USA), JET(Japan), J-PEC(Japan), MCS(UK), CEC(Australia), FSEC(FL-USA), CSI Eligible(CA-USA), Israel Electric(Israel), Kemco(South Korea), InMetro(Brazil), TSE(Turkey)
- ISO9001:2008: Quality management system
- ISO14001:2004: Environmental management system
- OHSAS18001:2007: Occupational health and safety management system

SPECIAL WARRANTY

- 12 years limited product warranty.
- Limited linear power warranty: 12 years 91.2% of the nominal power output, 30 years 80.6% of the nominal power output.



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ELECTRICAL CHARACTERISTICS 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
Operating Temperature	-40°C to +85°C							
Maximum System Voltage	1000V DC							
Fire Resistance Rating	Type 1(UL1703)/Class C(IEC61730)							
Maximum Series Fuse Rating	15A							

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

ELECTRICAL CHARACTERISTICS AT NOCT

Nominal Power (P_{max})	217W	221W	224W	228W	232W	236W	239W	243W
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})	6.52A	6.62A	6.69A	6.79A	6.89A	6.98A	7.05A	7.15A

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

MECHANICAL CHARACTERISTICS

Cell type	Polycrystalline 156x156mm (6x6inches)
Number of cells	72 (6x12)
Module dimensions	1956x992x50mm (77.01x39.06x1.97inches)
Weight	27kg (59.5lbs)
Front cover	4.0mm (0.16inches) low-iron tempered glass
Frame	Anodized aluminum alloy
Junction box	IP67, 3 diodes
Cable	4mm^2 (0.006inches^2), 1000mm (39.37inches)
Connector	MC4 or MC4 compatible

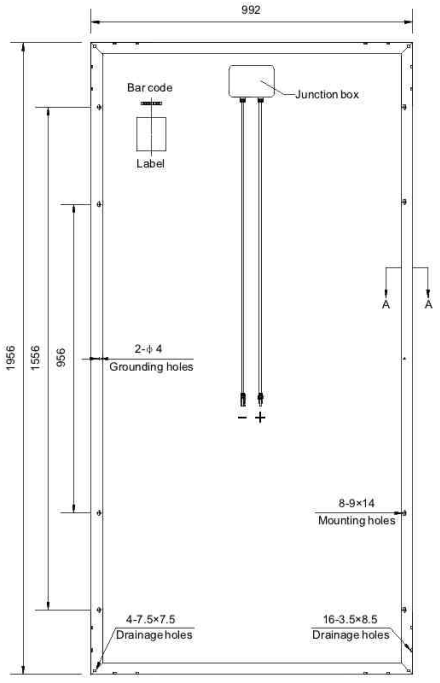
TEMPERATURE CHARACTERISTICS

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

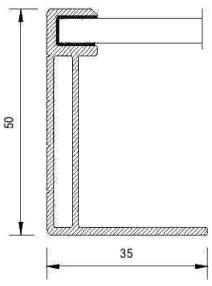
PACKAGING

Standard packaging	21pcs/pallet
Module quantity per 20' container	210 pcs
Module quantity per 40' container	462 pcs

ENGINEERING DRAWINGS

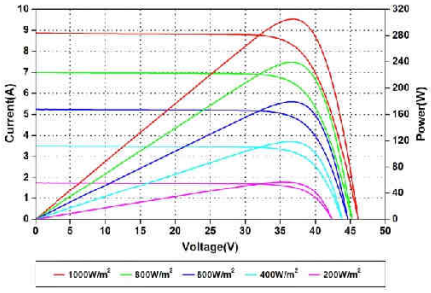


Unit: mm

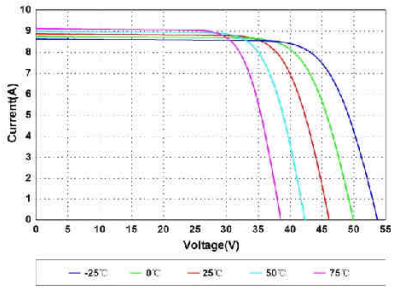


Section A-A

IV CURVES



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures

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