For a Free Quote:
Web: **EnergyPal.com/solar**
Call: **1-800-990-3725**
Email: **contact@energypal.com**

Solar Panel Guide
Specification Data Sheet

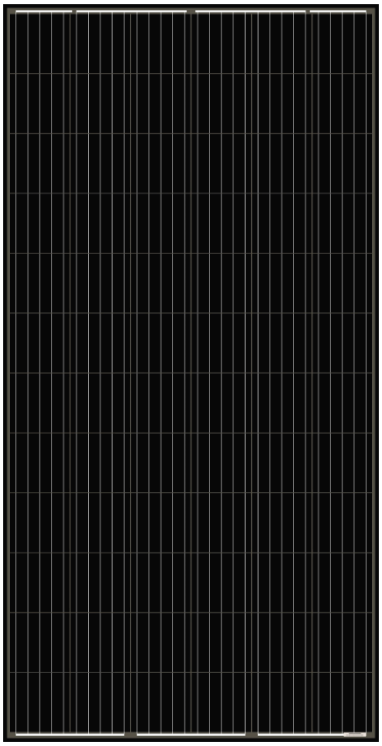
Worldwide Energy and Manufacturing USA Co., Ltd (Amerisolar)
AS-6P Black 300-340
AS-6P-335

Also available on the web at
EnergyPal.com/worldwide-energy-and-manufacturing-usa-co-ltd-amerisolar-solar-panels/as-6p-335

Amerisolar | New Energy New World ®

AS-6P BLACK

POLYCRYSTALLINE MODULE



ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- Aesthetically appealing design with black backsheet and frame.
- High module conversion efficiency up to 17.52% through innovative five busbar cell 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.
- High reliability against extreme environmental conditions (passing salt mist, ammonia and hail tests).
- Potential induced degradation (PID) resistance.
- Positive power tolerance of 0 ~ +3 %.

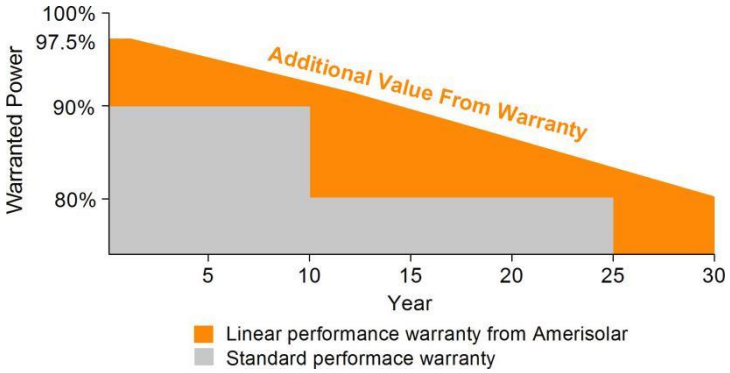
CERTIFICATIONS

- IEC61215, IEC61730, IEC62716, IEC61701, CE, CQC, CGC, ETL(USA), JET(Japan), J-PEC(Japan), Kemco(South Korea), KS(South Korea), MCS(UK), CEC(Australia), FSEC(FL-USA), CSI Eligible(CA-USA), Israel Electric(Israel), InMetro(Brazil), TSE(Turkey)
- ISO9001:2015: Quality management system
- ISO14001:2015: 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.

Passionately committed to delivering innovative energy solution



ELECTRICAL CHARACTERISTICS AT STC

Nominal Power (P_{max})	300W	305W	310W	315W	320W	325W	330W	335W	340W
Open Circuit Voltage (V_{OC})	45.3V	45.4V	45.5V	45.6V	45.7V	45.8V	45.9V	46.0V	46.1V
Short Circuit Current (I_{SC})	8.68A	8.76A	8.85A	8.93A	9.04A	9.15A	9.26A	9.38A	9.50A
Voltage at Nominal Power (V_{mp})	36.7V	36.8V	36.9V	37.0V	37.1V	37.2V	37.3V	37.4V	37.5V
Current at Nominal Power (I_{mp})	8.18A	8.29A	8.41A	8.52A	8.63A	8.74A	8.85A	8.96A	9.07A
Module Efficiency (%)	15.46	15.72	15.98	16.23	16.49	16.75	17.01	17.26	17.52
Operating Temperature	-40°C to +85°C								
Maximum System Voltage	1000V DC								
Fire Resistance Rating	Type 1(in accordance with 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})	221W	224W	228W	232W	236W	239W	243W	247W	251W
Open Circuit Voltage (V_{OC})	41.7V	41.8V	41.9V	42.0V	42.1V	42.2V	42.3V	42.4V	42.5V
Short Circuit Current (I_{SC})	7.03A	7.10A	7.17A	7.23A	7.32A	7.41A	7.50A	7.60A	7.70A
Voltage at Nominal Power (V_{mp})	33.4V	33.5V	33.6V	33.7V	33.8V	33.9V	34.0V	34.1V	34.2V
Current at Nominal Power (I_{mp})	6.62A	6.69A	6.79A	6.89A	6.98A	7.05A	7.15A	7.25A	7.34A

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

MECHANICAL CHARACTERISTICS

Cell type	Polycrystalline 5BB 156.75x156.75mm (6x6inches)
Number of cells	72 (6x12)
Module dimensions	1956x992x40mm (77.01x39.06x1.57inches)
Weight	22.5kg (49.6lbs)
Front cover	3.2mm (0.13inches) tempered glass with AR coating
Frame	Anodized aluminum alloy
Junction box	IP67, 3 diodes
Cable	4mm^2 (0.006inches^2), 1000mm (39.37inches)
Connector	MC4 or MC4 compatible

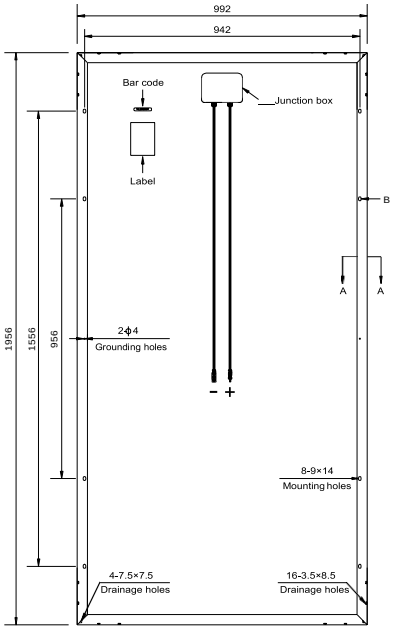
TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficients of P_{max}	-0.41%/°C
Temperature Coefficients of V_{OC}	-0.31%/°C
Temperature Coefficients of I_{SC}	0.05%/°C

PACKAGING

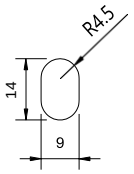
Standard packaging	26pcs/pallet
Module quantity per 20' container	260pcs
Module quantity per 40' container	572pcs(GP)/627pcs(HQ)

ENGINEERING DRAWINGS

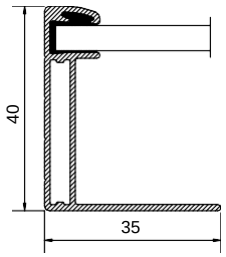


Rear View

Unit: mm

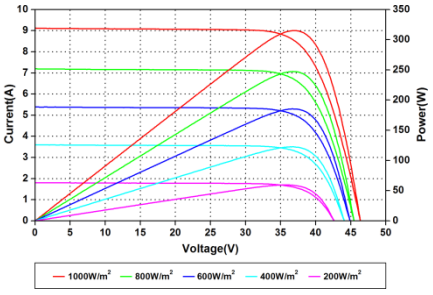


B

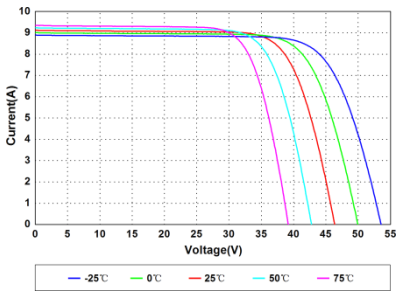


Section A-A

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.

Amerisolar and Amerisolar logo denoted with ® are registered trademarks of Worldwide Energy and Manufacturing USA Co., Ltd.