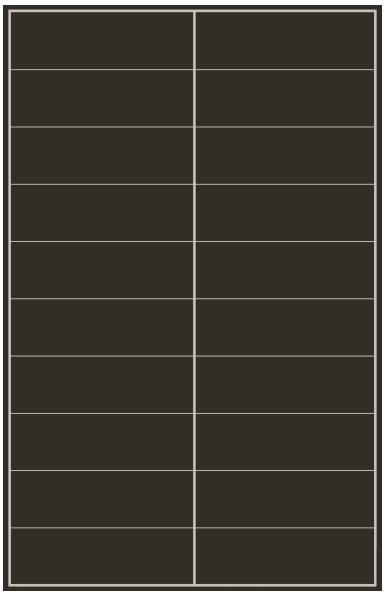
Amerisolar | New Energy New World ®

AS-6PB Overlapped-cell

POLYCRYSTALLINE MODULE



ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- High module conversion efficiency up to 18.78% by using innovative manufacturing technology.
- Higher power density of modules increases energy yields and reduces BOS costs.
- Lower power loss and reduced hot-spot effect under shading by special interconnection method of sub-strings.
- High reliability and durability by ribbon-less cell-to-cell connections.
- Aesthetically appealing design without gaps between cells.
- 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 %.

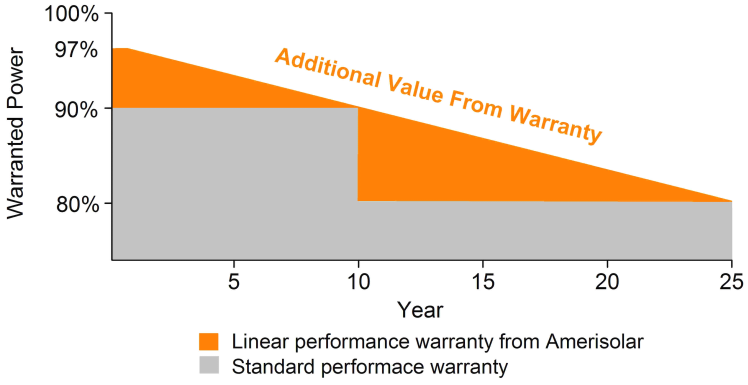
CERTIFICATIONS

- IEC61215, IEC61730, CE
- ISO9001:2008: Quality management system
- ISO14001:2004: Environmental management system
- OHSAS18001:2007: Occupational health and safety management system

Passionately committed to delivering innovative energy solution

WARRANTY

- 10 years limited product warranty.
- Limited linear power warranty: 10 years 90% of the nominal power output, 25 years 80% of the nominal power output.



ELECTRICAL CHARACTERISTICS AT STC

Nominal Power (P_{max})	285W	290W	295W	300W	305W	310W	315W	320W
Open Circuit Voltage (V_{OC})	43.5V	43.6V	43.7V	43.8V	43.9V	44.0V	44.1V	44.2V
Short Circuit Current (I_{SC})	8.43A	8.55A	8.67A	8.78A	8.90A	9.02A	9.13A	9.25A
Voltage at Nominal Power (V_{mp})	35.6V	35.7V	35.8V	35.9V	36.0V	36.1V	36.2V	36.3V
Current at Nominal Power (I_{mp})	8.01A	8.13A	8.25A	8.36A	8.48A	8.59A	8.71A	8.82A
Module Efficiency (%)	16.72	17.02	17.31	17.60	17.90	18.19	18.48	18.78
Operating Temperature	-40°C to +85°C							
Maximum System Voltage	1000V DC							
Fire Resistance Rating	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})	211W	215W	218W	222W	226W	229W	233W	237W
Open Circuit Voltage (V_{OC})	40.0V	40.1V	40.2V	40.3V	40.4V	40.5V	40.6V	40.7V
Short Circuit Current (I_{SC})	6.83A	6.93A	7.02A	7.11A	7.21A	7.31A	7.40A	7.49A
Voltage at Nominal Power (V_{mp})	32.4V	32.5V	32.6V	32.7V	32.8V	32.9V	33.0V	33.1V
Current at Nominal Power (I_{mp})	6.52A	6.62A	6.69A	6.79A	6.89A	6.96A	7.06A	7.16A

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

MECHANICAL CHARACTERISTICS

Cell type	Polycrystalline 156x31.2mm
Number of cells	340
Module dimensions	1623x1050x40mm
Weight	20kg
Front cover	3.2mm (0.13inches) tempered glass with AR coating
Frame	Anodized aluminum alloy
Junction box	IP65
Cable	4mm^2, 900mm
Connector	MC4 or MC4 compatible

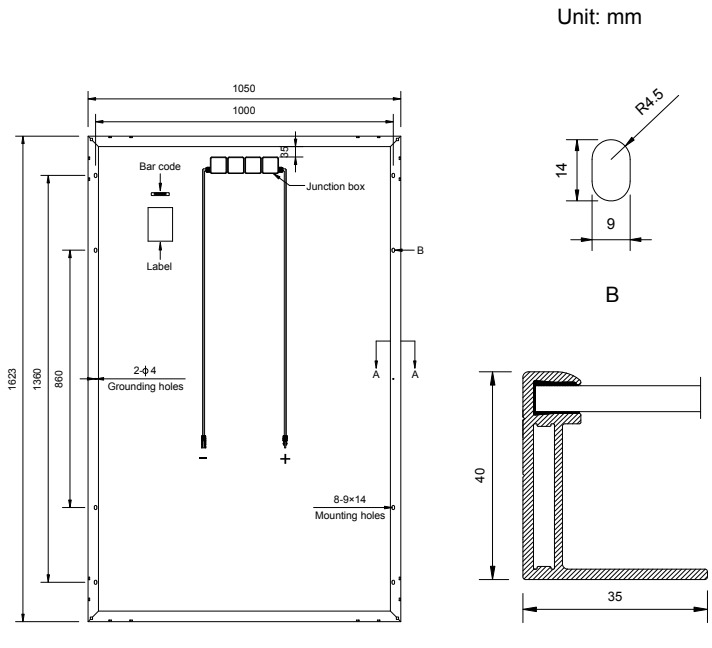
TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficients of P_{max}	-0.39%/°C
Temperature Coefficients of V_{OC}	-0.29%/°C
Temperature Coefficients of I_{SC}	0.05%/°C

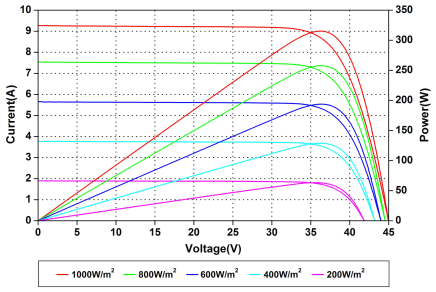
PACKAGING

Standard packaging	26pcs/pallet
Module quantity per 20' container	276pcs
Module quantity per 40' container	728pcs

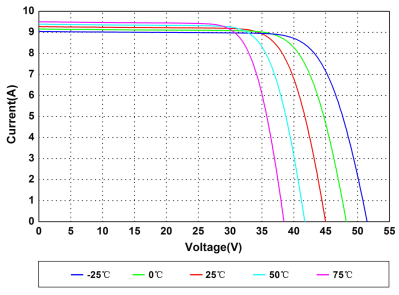
ENGINEERING DRAWINGS



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.