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Solar Panel Guide

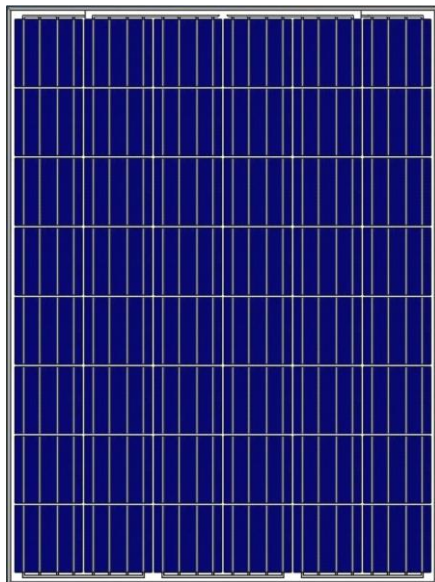
Specification Data Sheet

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AS-6P24

POLYCRYSTALLINE MODULE



ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- ☑ High module conversion efficiency up to 16.85% by using high efficient solar cells and 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.
- ☑ 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)
- ☑ ISO9001:2008: Quality management system
- ☑ ISO14001:2004: Environmental management system
- ☑ OHSAS18001:2007: Occupational health and safety management system

SPECIAL WARRANTY

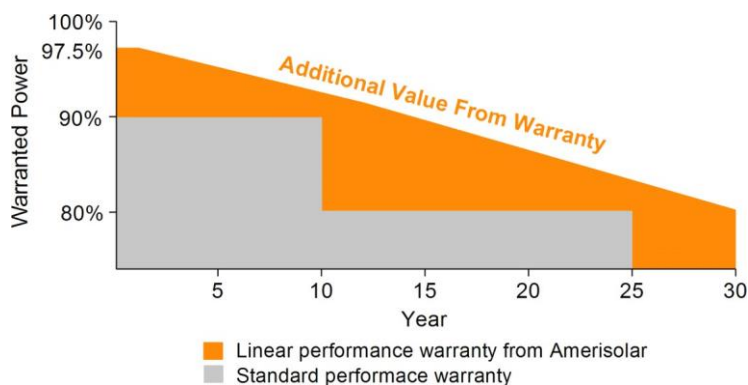
- ☑ 12 years limited product warranty.
- ☑ Limited linear power warranty: 12 years 91.2% of the nominal power output, 30 years 80.6% of the nominal power output.

Passionately

committed to

delivering innovative

energy solution



ELECTRICAL CHARACTERISTICS AT STC

Nominal Power (P_{max})	190W	195W	200W	205W	210W	215W	220W
Open Circuit Voltage (V_{oc})	30.2V	30.3V	30.4V	30.5V	30.6V	30.7V	30.8V
Short Circuit Current (I_{sc})	8.43A	8.56A	8.70A	8.83A	8.96A	9.10A	9.24A
Voltage at Nominal Power (V_{mp})	24.3V	24.4V	24.5V	24.6V	24.7V	24.8V	24.9V
Current at Nominal Power (I_{mp})	7.82A	8.00A	8.17A	8.34A	8.51A	8.67A	8.84A
Module Efficiency (%)	14.55	14.94	15.32	15.70	16.09	16.47	16.85
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/m², Cell temperature 25°C, AM1.5

ELECTRICAL CHARACTERISTICS AT NOCT

Nominal Power (P_{max})	140W	144W	148W	152W	155W	159W	163W
Open Circuit Voltage (V_{oc})	27.7V	27.8V	27.9V	28.0V	28.1V	28.2V	28.3V
Short Circuit Current (I_{sc})	6.83A	6.93A	7.05A	7.15A	7.26A	7.37A	7.48A
Voltage at Nominal Power (V_{mp})	22.1V	22.2V	22.3V	22.4V	22.5V	22.6V	22.7V
Current at Nominal Power (I_{mp})	6.33A	6.49A	6.64A	6.79A	6.89A	7.04A	7.18A

NOCT: Irradiance 800W/m², Ambient temperature 20°C, Wind Speed 1 m/s

MECHANICAL CHARACTERISTICS

Cell type	Polycrystalline 156x156mm (6x6inches)
Number of cells	48 (6x8)
Module dimensions	1316x992x35mm (51.81x39.06x1.38inches)
Weight	15kg (33.1lbs)
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), 900mm (35.43inches)
Connector	MC4 or MC4 compatible

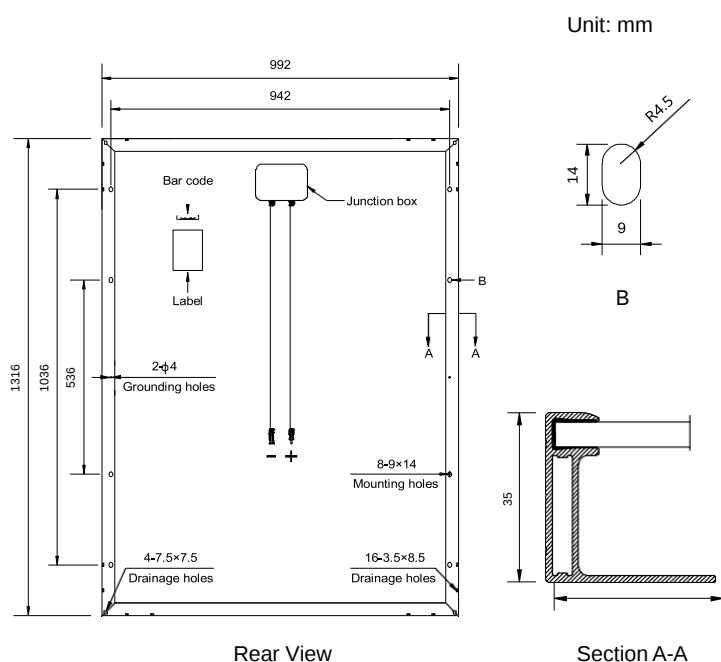
TEMPERATURE CHARACTERISTICS

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

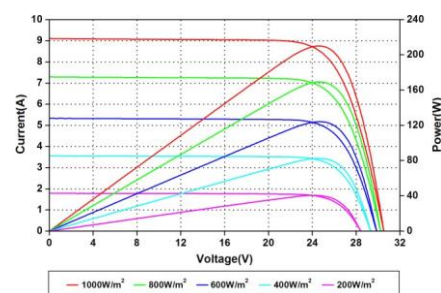
PACKAGING

Standard packaging	30pcs/pallet
Module quantity per 20' container	480pcs
Module quantity per 40' container	1012pcs(GP)/1076pcs(HQ)

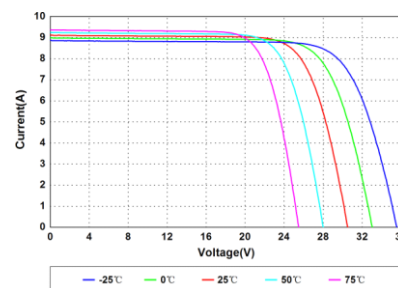
ENGINEERING DRAWINGS



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.