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Solar Panel Guide Specification Data Sheet

**Worldwide Energy and Manufacturing USA Co., Ltd
(Amerisolar)**

AS-6M30 Black 240-275

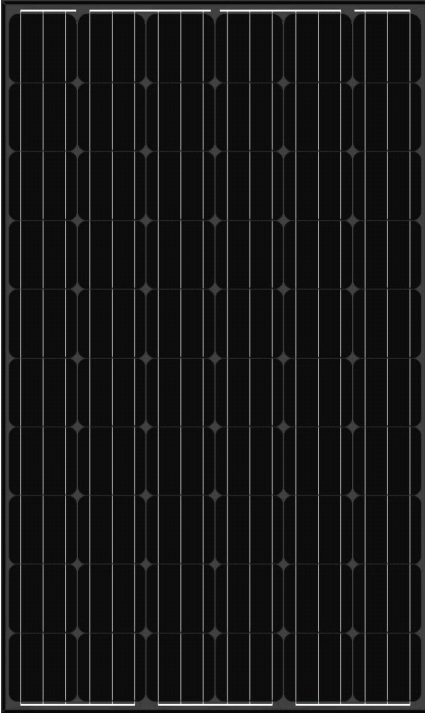
AS-6M30-270

Also available on the web at
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AS-6M30 BLACK

MONOCRYSTALLINE MODULE



ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- Aesthetically appealing design with black backsheet and frame.
- High module conversion efficiency up to 16.90% 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.

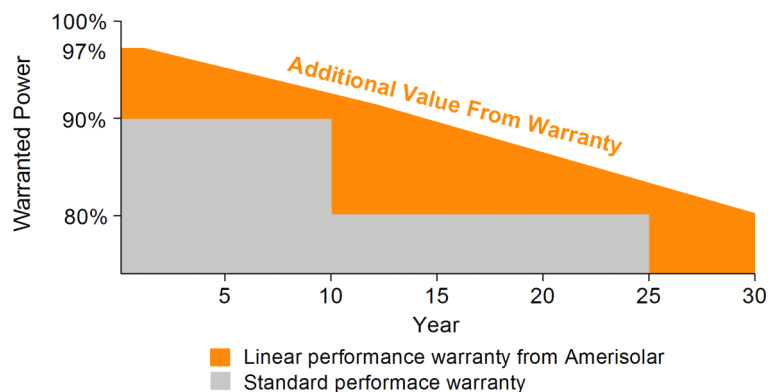
CERTIFICATIONS

- 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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delivering innovative
energy solution



ELECTRICAL CHARACTERISTICS AT STC

Nominal Power (P_{max})	240W	245W	250W	255W	260W	265W	270W	275W
Open Circuit Voltage (V_{oc})	37.1V	37.2V	37.3V	37.4V	37.5V	37.6V	37.7V	37.8V
Short Circuit Current (I_{sc})	8.52A	8.62A	8.72A	8.82A	8.91A	9.01A	9.10A	9.20A
Voltage at Nominal Power (V_{mp})	30.3V	30.4V	30.5V	30.6V	30.7V	30.8V	30.9V	31.0V
Current at Nominal Power (I_{mp})	7.92A	8.06A	8.20A	8.34A	8.48A	8.61A	8.74A	8.88A
Module Efficiency (%)	14.75	15.06	15.37	15.67	15.98	16.29	16.60	16.90
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/m², Cell temperature 25°C, AM1.5

ELECTRICAL CHARACTERISTICS AT NOCT

Nominal Power (P_{max})	177W	180W	184W	188W	191W	195W	199W	202W
Open Circuit Voltage (V_{oc})	34.1V	34.2V	34.3V	34.4V	34.5V	34.6V	34.7V	34.8V
Short Circuit Current (I_{sc})	6.90A	6.98A	7.06A	7.14A	7.22A	7.30A	7.39A	7.45A
Voltage at Nominal Power (V_{mp})	27.6V	27.7V	27.8V	27.8V	27.9V	28.0V	28.1V	28.2V
Current at Nominal Power (I_{mp})	6.42A	6.50A	6.62A	6.77A	6.85A	6.97A	7.09A	7.17A

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

MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline 156x156mm(6x6inches)
Number of cells	60 (6x10)
Module dimensions	1640x992x40mm (64.57x39.06x1.57inches)
Weight	18.5kg (40.8lbs)
Front cover	3.2mm (0.13inches) low-iron tempered glass
Frame	Anodized aluminum alloy
Junction box	IP67, 3 diodes
Cable	4mm ² (0.006inches ²), 900mm (35.43inches)
Connector	MC4 or MC4 compatible

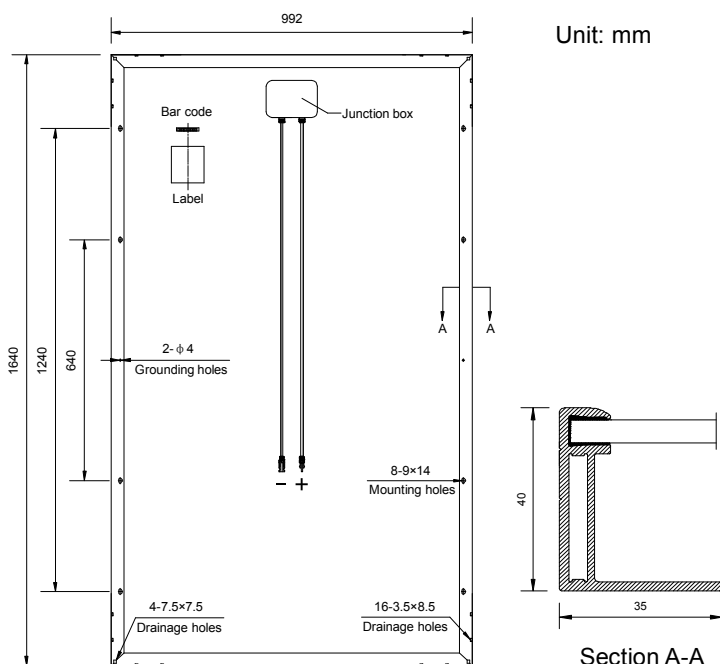
TEMPERATURE CHARACTERISTICS

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

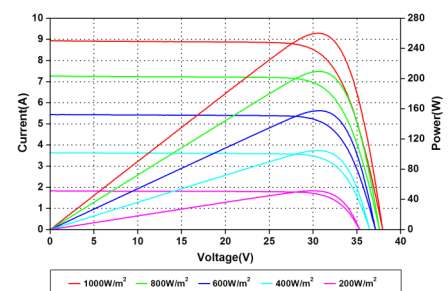
PACKAGING

Standard packaging	26pcs/pallet
Module quantity per 20' container	312pcs
Module quantity per 40' container	728pcs(GP)/784pcs(HQ)

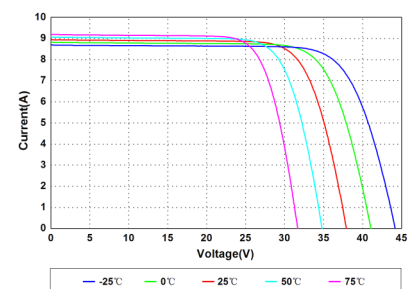
ENGINEERING DRAWINGS



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.