



AS-6M30

Amerisolar's photovoltaic modules are designed for large electrical power requirements. With a 30-year warranty, AS-6M30 offers higher-powered, more reliable performance for both on-grid and off-grid solar projects.

Key Features

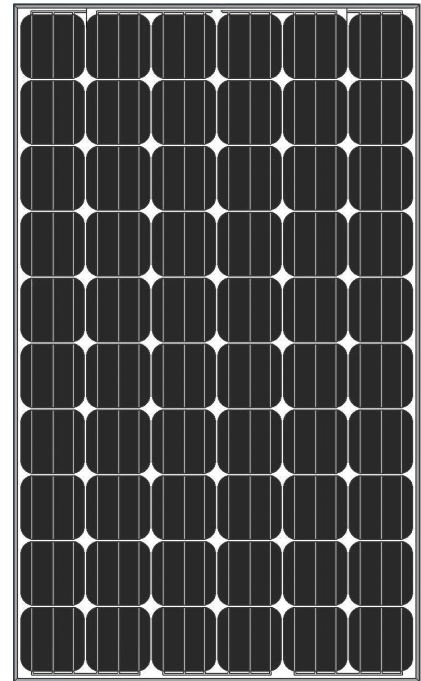
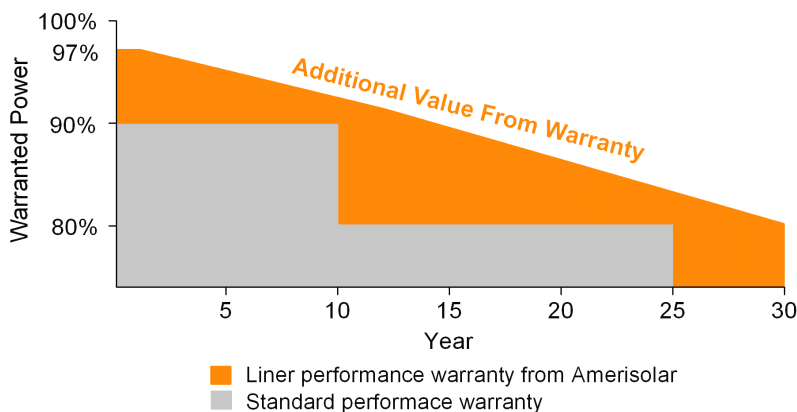
- High module conversion efficiency up to 16.60% through superior manufacturing technology.
- Low degradation and excellent performance under high temperature and low light conditions.
- Robust aluminum frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- Positive power tolerance of 0 ~ +3 %.
- High ammonia and salt mist resistance.

Quality Certificates

- IEC61215, IEC61730, IEC62716, IEC61701, UL1703, CE, MCS, CEC, Israel Electric, Kemco
- ISO9001:2008: Quality management system
- ISO14001:2004: Environmental management system
- OHSAS18001:2007: Occupational health and safety management system

Special Warranties

- 12 year limited product warranty.
- Limited 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

Electrical parameters at STC							
Nominal Power (P_{max})	240W	245W	250W	255W	260W	265W	270W
Open Circuit Voltage (V_{OC})	37.1V	37.2V	37.3V	37.4V	37.5V	37.6V	37.7V
Short Circuit Current (I_{SC})	8.52A	8.62A	8.72A	8.82A	8.91A	9.01A	9.12A
Voltage at Nominal Power (V_{mp})	30.3V	30.4V	30.5V	30.6V	30.7V	30.8V	30.9V
Current at Nominal Power (I_{mp})	7.92A	8.06A	8.20A	8.34A	8.48A	8.61A	8.74A
Module Efficiency (%)	14.75	15.06	15.37	15.67	15.98	16.29	16.60

STC: Irradiance 1000W/m², Cell temperature 25°C, AM1.5

Electrical parameters at NOCT							
Nominal Power (P_{max})	175W	179W	183W	186W	190W	194W	197W
Open Circuit Voltage (V_{OC})	34.1V	34.2V	34.3V	34.4V	34.5V	34.6V	34.7V
Short Circuit Current (I_{SC})	6.90A	6.98A	7.06A	7.14A	7.22A	7.30A	7.39A
Voltage at Nominal Power (V_{mp})	27.6V	27.7V	27.8V	27.8V	27.9V	28.0V	28.1V
Current at Nominal Power (I_{mp})	6.35A	6.47A	6.59A	6.70A	6.82A	6.93A	7.01A

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

Mechanical Characteristics

Cell type	Monocrystalline 156x156mm
Number of cells	60 (6x10)
Module dimension	1640x992x40mm
Weight	18.5kg
Front cover	3.2mm low-iron tempered glass
Frame	Anodized aluminum alloy
Junction box	IP67, 6 diodes
Cable	4mm ² , 900mm
Connector	MC4 or MC4 compatible
Standard packaging	26pcs/pallet
Module quantity per container	728pcs/40'HQ

Temperature Characteristics

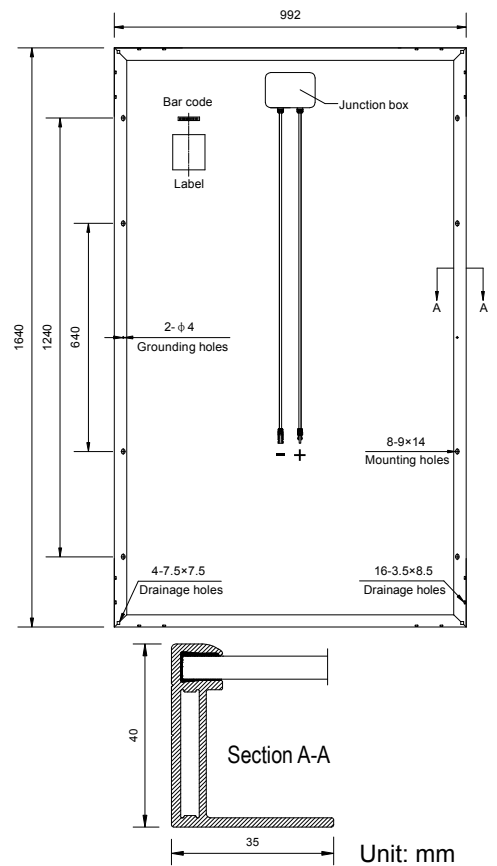
Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficients of P_{max}	-0.43%/°C
Temperature Coefficients of V_{OC}	-0.33%/°C
Temperature Coefficients of I_{SC}	0.056%/°C

Maximum Ratings

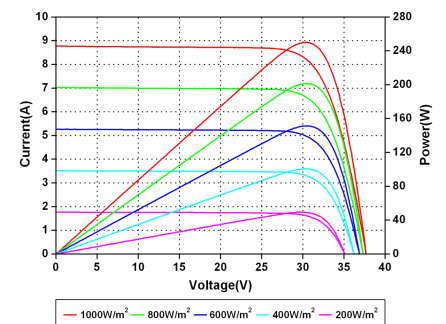
Operating Temperature	-40°C to +85°C
Maximum System Voltage	1000V DC
Maximum Series Fuse Rating	15A

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

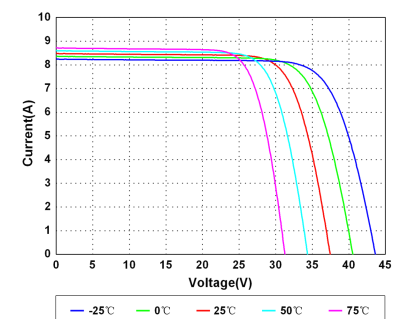
Drawings



I-V Curves



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures

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