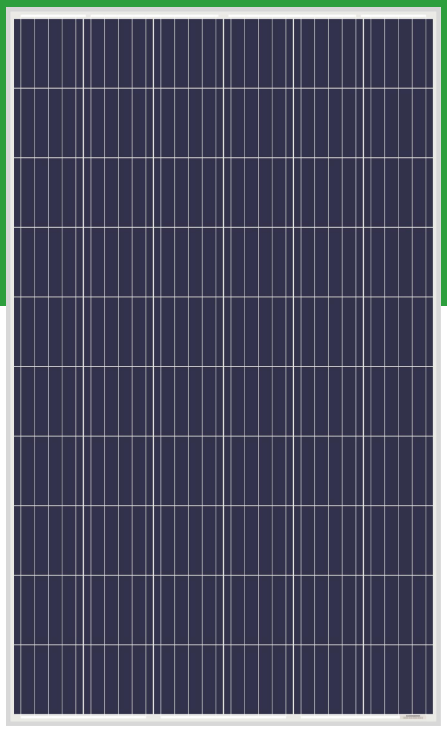
Amerisolar AP | New Energy New World®



Tiger Premium
AS-6P30
270W~300W
POLYCRYSTALLINE MODULE

ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- High module conversion efficiency up to 18.44% 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 3600Pa and snow loads up to 5400Pa.
- High reliability against extreme environmental conditions (passing salt mist, ammonia and hail tests).
- Potential induced degradation (PID) resistance.

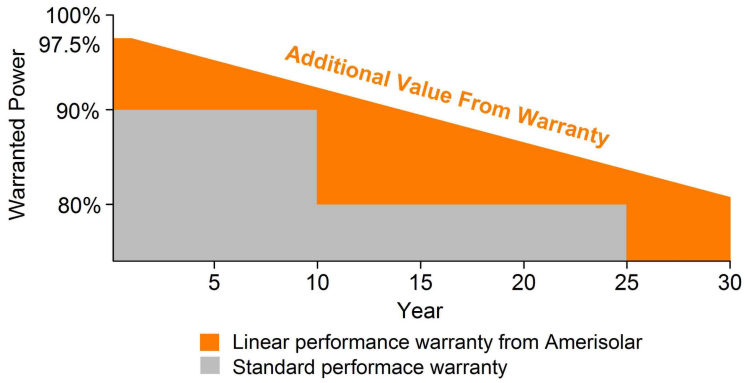
CERTIFICATIONS

- IEC 61215, IEC 61730, UL 1703, IEC 62716, IEC 61701, IEC TS 62804, CE, CQC, ETL(USA), JET(Japan), J-PEC(Japan), KS(South Korea), BIS(India), MCS(UK), CEC(Australia), CSI Eligible(CA-USA), Israel Electric(Israel), InMetro(Brazil), TSE(Turkey)
- ISO 9001:2015: Quality management system
- ISO 14001:2015: Environmental management system
- ISO 45001:2018: Occupational health and safety management system

SPECIAL WARRANTY

- 20 years product warranty
- 30 years linear power output warranty

Passionately committed to delivering innovative energy solution



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ELECTRICAL CHARACTERISTICS AT STC

Maximum Power (P_{max})	270W	275W	280W	285W	290W	295W	300W
Open Circuit Voltage (V_{OC})	38.4V	38.6V	38.8V	39.0V	39.2V	39.4V	39.6V
Short Circuit Current (I_{SC})	9.15A	9.26A	9.37A	9.48A	9.59A	9.70A	9.80A
Voltage at Maximum Power (V_{mp})	31.2V	31.4V	31.6V	31.8V	32.0V	32.2V	32.4V
Current at Maximum Power (I_{mp})	8.66A	8.76A	8.87A	8.97A	9.07A	9.17A	9.26A
Module Efficiency (%)	16.60	16.90	17.21	17.52	17.83	18.13	18.44
Operating Temperature	-40°C to +85°C						
Maximum System Voltage	1000V DC/1500V DC						
Fire Resistance Rating	Type 1(in accordance with UL 1703)/Class C(IEC 61730)						
Maximum Series Fuse Rating	15A						

STC: Irradiance 1000W/m^2, Cell temperature 25°C, AM1.5; Tolerance of Pmax: ±3%; Measurement Tolerance: ±3%

ELECTRICAL CHARACTERISTICS AT NOCT

Maximum Power (P_{max})	200W	204W	207W	211W	215W	218W	222W
Open Circuit Voltage (V_{OC})	35.3V	35.5V	35.7V	35.9V	36.1V	36.3V	36.5V
Short Circuit Current (I_{SC})	7.41A	7.50A	7.59A	7.68A	7.77A	7.86A	7.94A
Voltage at Maximum Power (V_{mp})	28.4V	28.6V	28.8V	29.0V	29.2V	29.4V	29.6V
Current at Maximum Power (I_{mp})	7.05A	7.14A	7.19A	7.28A	7.37A	7.42A	7.50A

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

MECHANICAL CHARACTERISTICS

Cell type	Polycrystalline 6inch
Number of cells	60 (6x10)
Module dimensions	1640x992x30mm (64.57x39.06x1.18inches)
Weight	17kg (37.5lbs)
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

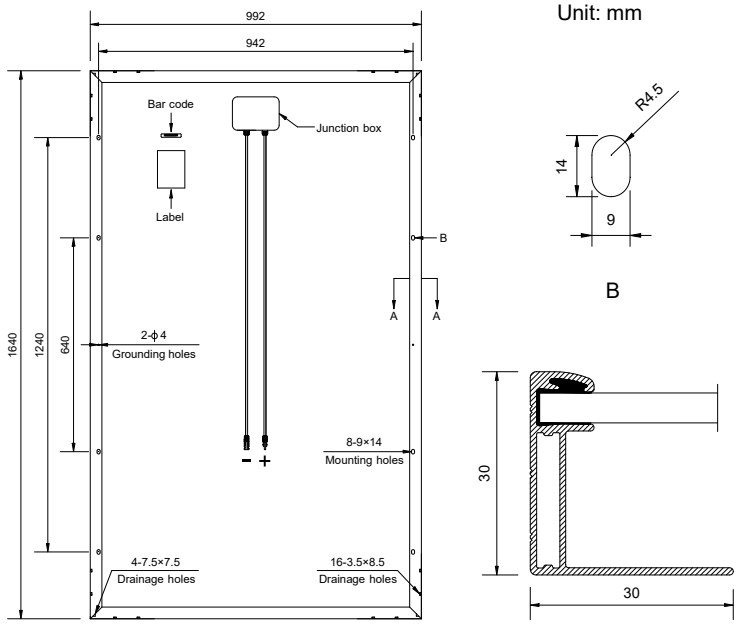
TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficients of P_{max}	-0.39%/°C
Temperature Coefficients of V_{OC}	-0.30%/°C
Temperature Coefficients of I_{SC}	0.05%/°C

PACKAGING

Standard packaging	36pcs/pallet
Module quantity per 20' container	484pcs
Module quantity per 40' container	1008pcs(GP)/1106pcs(HQ)

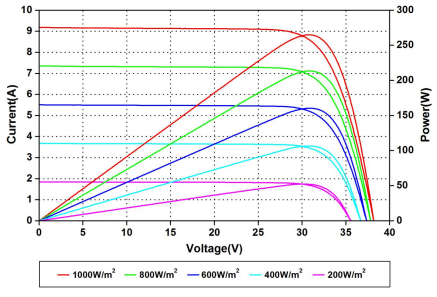
ENGINEERING DRAWINGS



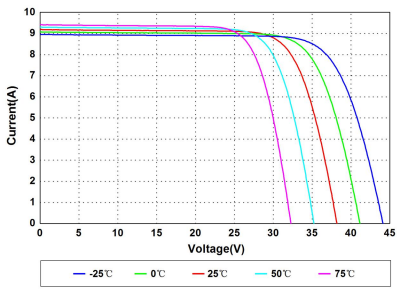
Rear View

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.