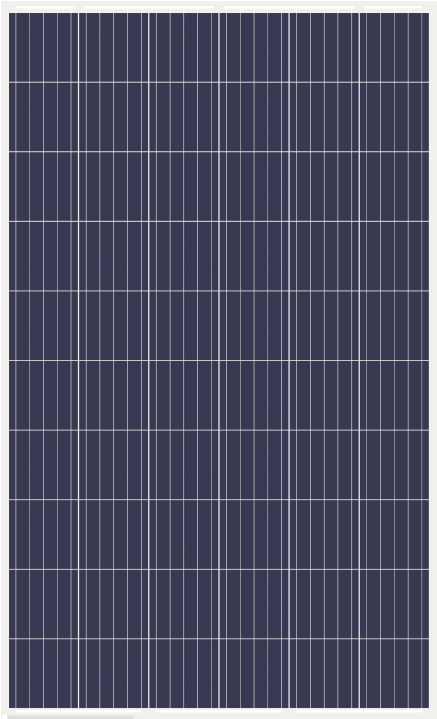
Amerisolar | New Energy New World ®

AS-6P30-ET/AS-6P30-EW

DOUBLE GLASS MODULE



ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- High module conversion efficiency up to 17.33% by using high efficient solar cells and advanced manufacturing technology.
- Lower annual power degradation and higher energy yield during the module's lifetime.
- High load-bearing capacity which can withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- Excellent reliability and durability against extreme environmental conditions (high resistance to salt mist, ammonia, sand, acid and alkali, etc.).
- Potential induced degradation (PID) free.
- Positive power tolerance of 0 ~ +3 %.

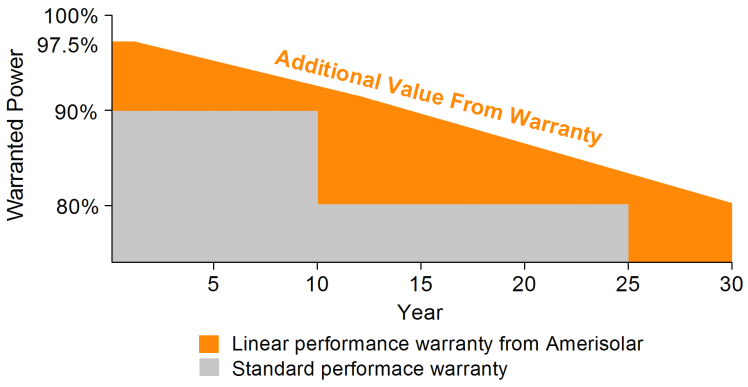
CERTIFICATIONS

- IEC61215, IEC61730, CE
- ISO9001:2015: Quality management system
- ISO14001:2015: Environmental management system
- OHSAS18001:2007: Occupational health and safety management system

SPECIAL WARRANTY

- 12 years limited product warranty.
- Limited linear power warranty: 30 years 83% of the nominal power output.

Passionately committed to delivering innovative energy solution



ELECTRICAL CHARACTERISTICS AT STC

Maximum Power (P_{max})	265W	270W	275W	280W	285W
Open Circuit Voltage (V_{OC})	38.3V	38.5V	38.7V	38.9V	39.1V
Short Circuit Current (I_{SC})	8.99A	9.08A	9.18A	9.27A	9.36A
Voltage at Maximum Power (V_{mp})	31.2V	31.4V	31.6V	31.8V	32.0V
Current at Maximum Power (I_{mp})	8.50A	8.60A	8.71A	8.81A	8.91A
Module Efficiency (%)	16.11	16.42	16.72	17.02	17.33
Operating Temperature	-40°C to +85°C				
Maximum System Voltage	1000V DC/1500V DC				
Fire Resistance Rating	Class A (IEC61730)				
Maximum Series Fuse Rating	20A				

STC: Irradiance 1000W/m^2, Cell temperature 25°C, AM1.5

ELECTRICAL CHARACTERISTICS AT NOCT

Maximum Power (P_{max})	196W	200W	204W	207W	211W
Open Circuit Voltage (V_{OC})	35.3V	35.5V	35.7V	35.9V	36.1V
Short Circuit Current (I_{SC})	7.28A	7.35A	7.44A	7.51A	7.58A
Voltage at Maximum Power (V_{mp})	28.4V	28.6V	28.8V	29.0V	29.2V
Current at Maximum Power (I_{mp})	6.91A	7.00A	7.09A	7.14A	7.23A

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	1658x992x5mm (Junction box is not included)
Weight	19.6kg
Front Glass	2mm Tempered glass with AR coating
Back Glass	2mm Tempered glass/2mm Ceramic coated glass
Junction box	IP68, 3 diodes
Cable	4mm^2
Connector	MC4 or MC4 compatible

TEMPERATURE CHARACTERISTICS

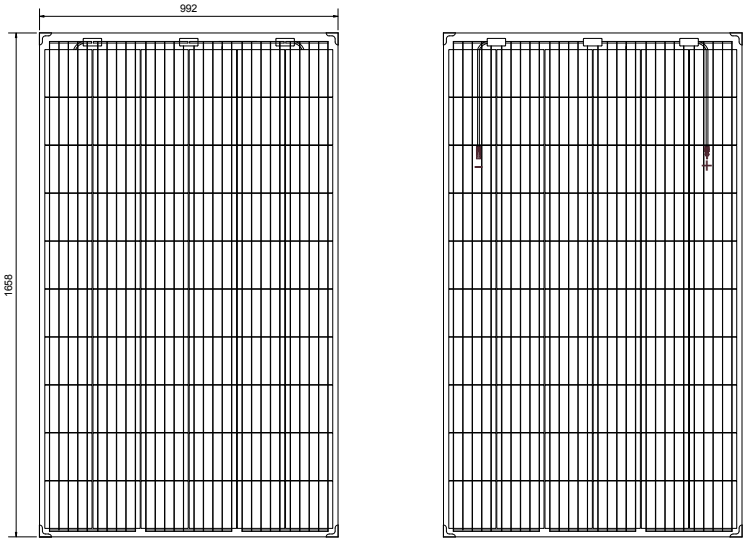
Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficients of P_{max}	-0.39%/°C
Temperature Coefficients of V_{OC}	-0.30%/°C
Temperature Coefficients of I_{SC}	0.05%/°C

PACKAGING

Standard packaging	38pcs/pallet
Module quantity per 20' container	228pcs
Module quantity per 40' container	988pcs

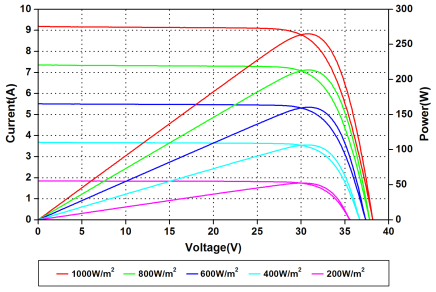
ENGINEERING DRAWINGS

Unit: mm

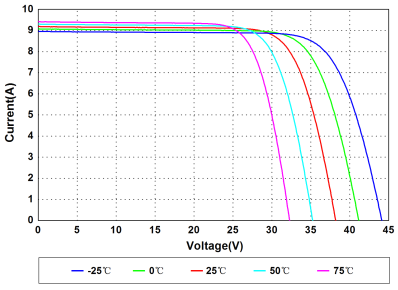


Front Back

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.