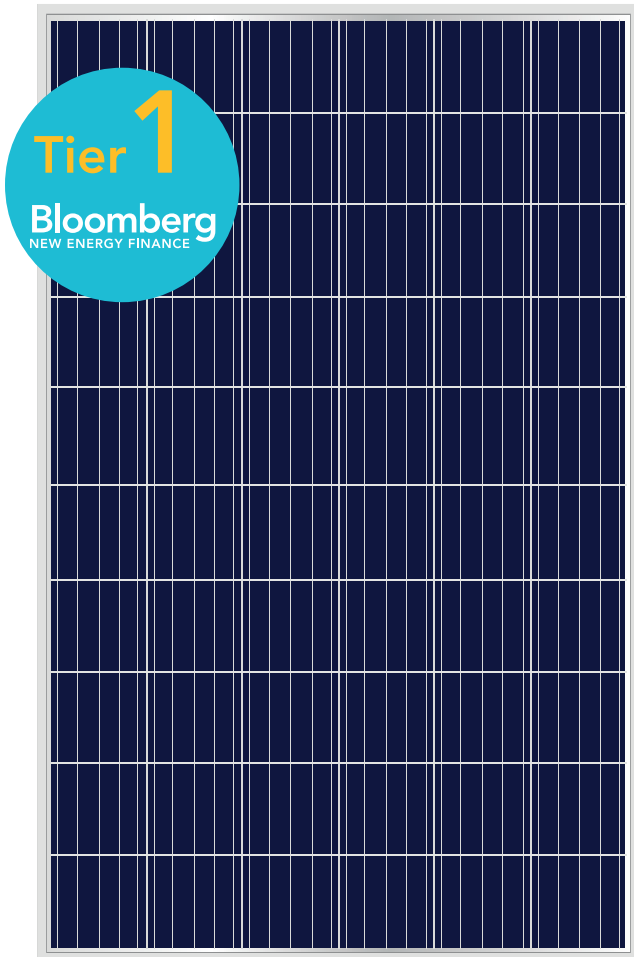


# AB280-60P

60 (6×10) 156.75×156.75mm

280W  
285W  
290W

## Polycrystalline PV modules



Power tolerance (0~+4.99%) to ensure the high reliability of power output



Modules certified by TÜV to withstand high level of wind loads (2400 Pa) and snow loads (5400 Pa)



Special PV Module Insurances by world leading insurance company guarantees the benefit of PV investors and PV module users



Junction box and bypass diodes guarantee the modules free of overheating and "hot spot effect"

### WHY ABI-SOLAR?

- Manufacturing and assembly of PV modules are performed only on East Asian enterprises from **Bloomberg Tier 1** list.
- PV modules are tested and demonstrate high reliability in various climatic conditions and in a wide range of insolation.
- High efficiency and return on investment guaranteed around the world.
- Modules certified by global testing facilities: IEC61215, IEC61730, CE, ROHS, TÜV.
- Manufacturing with international quality standards and environmental management system: ISO9001 and ISO14001.
- Maximum power and performance at minimal price ensure fast return of investments.
- Compatibility with both on-grid and off-grid PV systems guaranteed.

# 10

**YEAR**

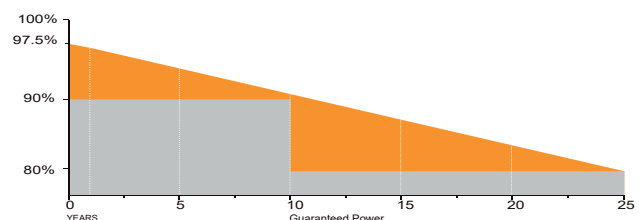
Manufacturing Warranty

# 25

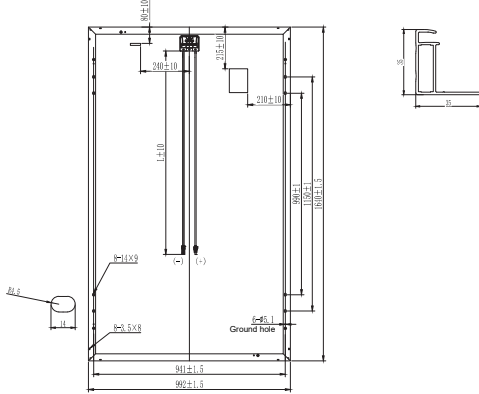
**YEAR WARRANTY**

80% Power Output

### INDUSTRY-LEADING WARRANTY BASED ON NOMINAL POWER



## MECHANICAL DRAWINGS



## MECHANICAL SPECIFICATIONS

Cell type	Polycrystalline
Number of cell	60 (6×10)
Dimensions (A×B× C)	1640×992×35 mm
Weight	18.5 kg
Font glass	High transmission tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP67
Connector	MC4/ MC4 Compatible
Output cables	4.0 mm <sup>2</sup> (IEC)
Maximum snow load (IEC 61215)	5400Pa

## ELECTRICAL CHARACTERISTICS (STC)

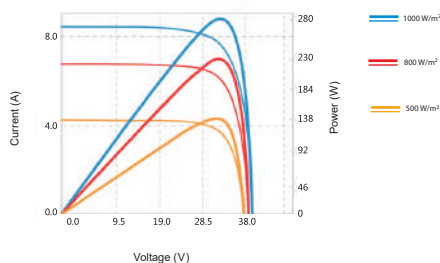
	AB280-60P	AB285-60P	AB290-60P
Maximum Power (Pmax)	280W	285W	290W
Shot Circuit Current (Isc)	9.25A	9.42A	9.49A
Open Circuit Voltage (Voc)	38.4V	39.2V	39.4V
Maximum Power Current (Impp)	8.52A	8.81A	8.86A
Maximum Power Voltage (Vmpp)	32.9V	32.4V	32.8V
Module Efficiency	17.21%	17.52%	17.83%
Power Tolerance	(0~+5W)		
Maximum System Voltage	1000V / 1500V DC(IEC)		
Maximum Series Fuse	15A		

## NOCT

	AB280-60P	AB285-60P	AB290-60P
Maximum Power (Pmax)	205W	209W	213W
Shot Circuit Current (Isc)	7.47A	7.61A	7.67A
Open Circuit Voltage (Voc)	35.6V	36.3V	36.5V
Maximum Power Current (Impp)	6.75A	6.98A	7.02A
Maximum Power Voltage (Vmpp)	30.4V	30.0V	30.4V

STC irradiance: 1000 W/m<sup>2</sup> module temperature: +25 °C AM=1.5 NOCT irradiance: 800 W/m<sup>2</sup> module temperature: +20 °C AM=1.5

Current-Voltage & Power-Voltage Curve



## TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	45±2 °C
Temperature Coefficient of Pmax	-0,41 %/°C
Temperature Coefficient of Voc	-0,32 %/°C
Temperature Coefficient of Isc	0.050 % /°C
Operating Temperature	-40~+85 °C

## PACKING CONFIGURATION

	1640x 992x 35 mm
Container	40'HQ
Pieces per Pallet	30
Pallets per Container	28
Pieces per Container	840

## QUALIFICATIONS AND CERTIFICATES



Specifications are subject to change without prior notification

PL05

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