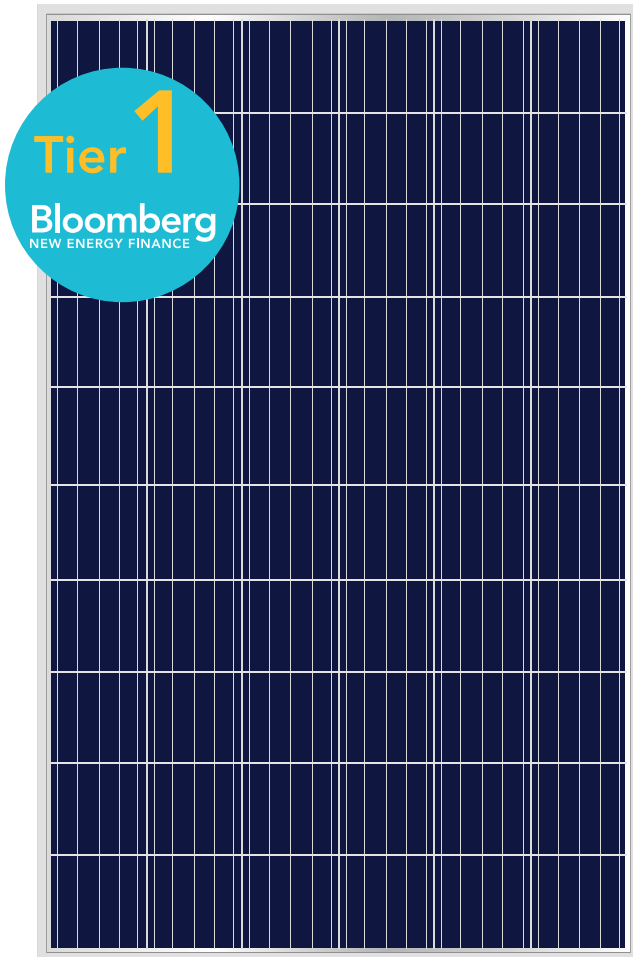


# AB-60P

60 (6×10) 156.75×156.75mm

## Polycrystalline PV modules

270W  
275W  
280W  
285W  
290W



Power tolerance (0~+3%) 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

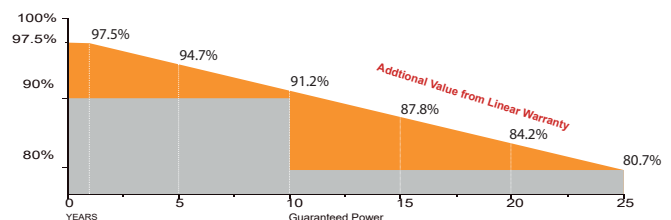


Junction box and bypass diodes guarantee the modules free of overheating and "hot spot effect"

### 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 environment 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.

### INDUSTRY-LEADING WARRANTY BASED ON NOMINAL POWER



Based of nominal power (P<sub>nom</sub>)

25-year transferrable power output warranty:

94,7% - 5 years; 87,7% - 15 years; 80,7% - 25 years

12-year material and workmanship

12

YEAR

Manufacturing Warranty

12

YEAR WARRANTY

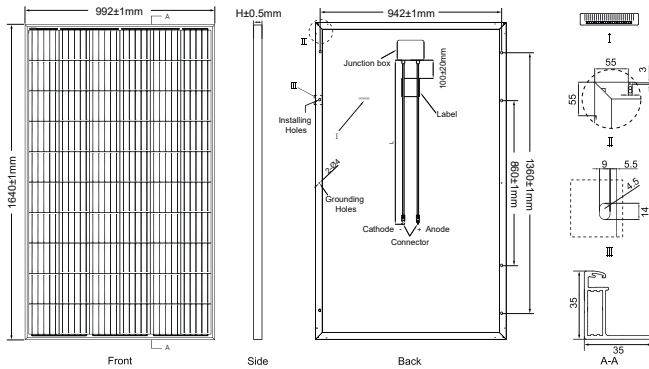
90% Power Output

25

YEAR WARRANTY

80% Power Output

## MECHANICAL DRAWINGS



## MECHANICAL SPECIFICATIONS

Cell type	Polycrystalline
Number of cell	60 (6×10)
Dimensions (A×B× C)	1640×992×35 mm
Weight	18 kg
Front glass	3.2mm AR tempered glass, low iron
Frame	Anodized aluminium alloy
Junction Box	IP67
Connector	MC4 Compatible
Output cables	4.0 mm <sup>2</sup> , wire length: 1100 mm
Maximum snow load (IEC 61215)	5400Pa

## ELECTRICAL CHARACTERISTICS (STC)

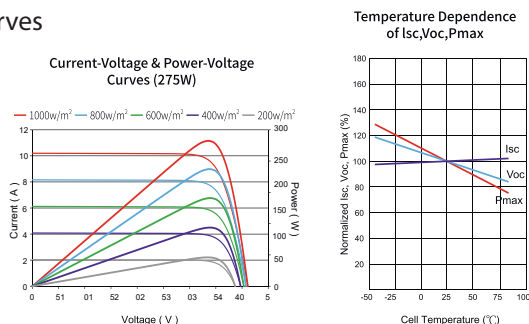
	AB270-60P	AB275-60P	AB280-60P	AB285-60P	AB290-60P
Maximum Power (Pmax)	270W	275W	280W	285W	290W
Shot Circuit Current (Isc)	9.09A	9.15A	9.20A	9.26A	9.34A
Open Circuit Voltage (Voc)	38.8V	39.1V	39.4V	39.6V	39.9V
Maximum Power Current (Imp)	8.52A	8.61A	8.69A	8.77A	8.86A
Maximum Power Voltage (Vmpp)	31.7V	32.0V	32.3V	32.5V	32.8V
Module Efficiency	16.6%	16.9%	17.21%	17.52%	17.83%
Power Tolerance	(0~+3W)				
Maximum System Voltage	1000V / 1500V DC(IEC)				
Maximum Series Fuse	20A				

## NOCT

	AB270-60P	AB275-60P	AB280-60P	AB285-60P	AB290-60P
Maximum Power (Pmax)	200W	204W	208W	212W	216W
Shot Circuit Current (Isc)	7.38A	7.44A	7.99A	8.05A	8.12A
Open Circuit Voltage (Voc)	35.4V	35.5V	35.6V	35.7V	35.9V
Maximum Power Current (Imp)	6.80A	6.85A	6.91A	6.97A	7.03A
Maximum Power Voltage (Vmpp)	29.4V	29.8V	30.1V	30.4V	30.8V

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

### I-V curves



## TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	45±2 °C
Temperature Coefficient of Pmax	-0,38 %/°C
Temperature Coefficient of Voc	-0,31 %/°C
Temperature Coefficient of Isc	0.060 %/°C
Operating Temperature	-40~+85 °C

## PACKING CONFIGURATION

1640x 992x 35 mm		
Container	20GP	40HQ
Pieces per Pallet	30	31
Pallets per Container	12	28
Pieces per Container	360	952

## QUALIFICATIONS AND CERTIFICATES



Specifications are subject to change without prior notification