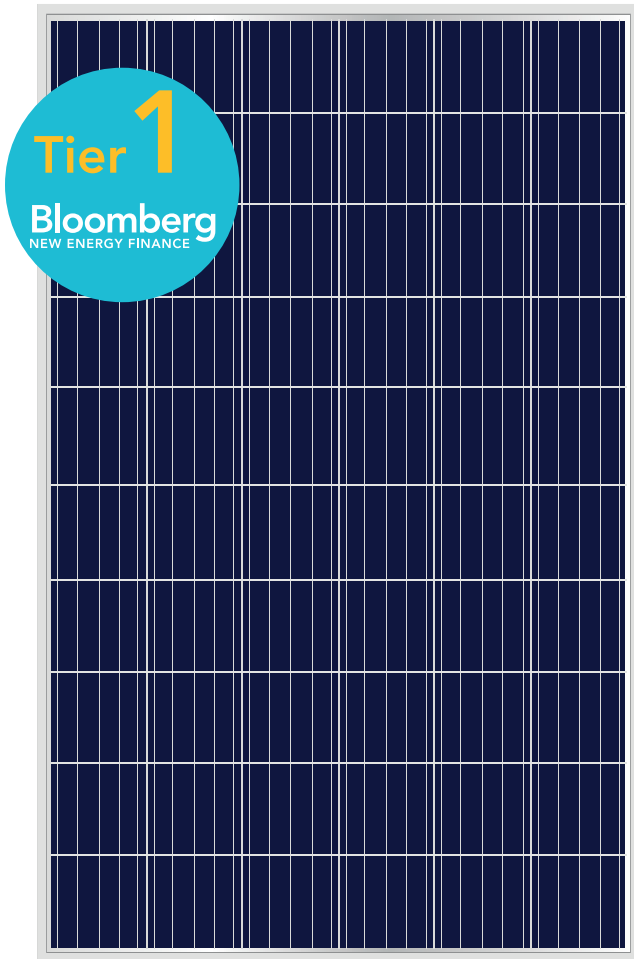


AB-60P

60 (6×10) 156.75×156.75mm

270W
275W
280W
285W

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.

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YEAR

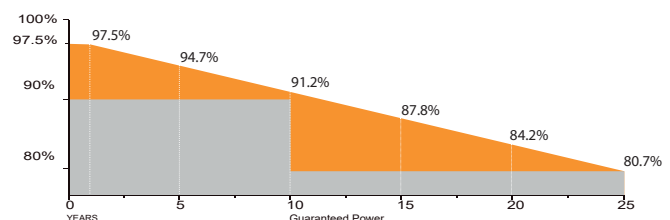
Manufacturing Warranty

25

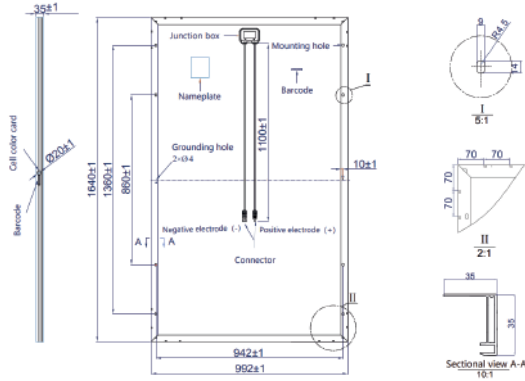
YEAR WARRANTY

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 | 17.5 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 ² , wire length: 1100 mm |
| Maximum snow load (IEC 61215) | 5400Pa |

ELECTRICAL CHARACTERISTICS (STC)

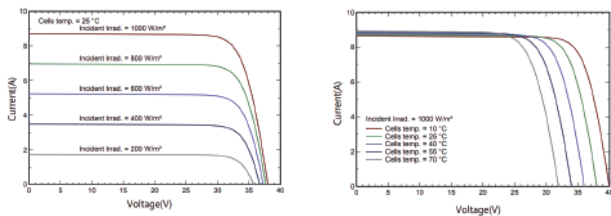
| | AB270-60P | AB275-60P | AB280-60P | AB285-60P |
|---|-----------------------|-----------|-----------|-----------|
| Maximum Power (P _{max}) | 270W | 275W | 280W | 285W |
| Shot Circuit Current (I _{sc}) | 8.99A | 9.08A | 9.18A | 9.27A |
| Open Circuit Voltage (V _{oc}) | 38.1V | 38.3V | 38.5V | 38.7V |
| Maximum Power Current (I _{mp}) | 8.63A | 8.71A | 8.81A | 8.91A |
| Maximum Power Voltage (V _{mpp}) | 31.3V | 31.6V | 31.8V | 32.0V |
| Module Efficiency | 16.6% | 16.9% | 17.2% | 17.5% |
| Power Tolerance | (0~+5W) | | | |
| Maximum System Voltage | 1000V / 1500V DC(IEC) | | | |
| Maximum Series Fuse | 20A | | | |

NOCT

| | AB270-60P | AB275-60P | AB280-60P | AB285-60P |
|---|-----------|-----------|-----------|-----------|
| Maximum Power (P _{max}) | 200W | 204W | 208W | 212W |
| Shot Circuit Current (I _{sc}) | 7.26A | 7.35A | 7.44A | 7.53A |
| Open Circuit Voltage (V _{oc}) | 35.2V | 35.4V | 35.6V | 35.8V |
| Maximum Power Current (I _{mp}) | 6.85A | 6.94A | 7.03A | 7.12A |
| Maximum Power Voltage (V _{mpp}) | 29.2V | 29.4V | 29.6V | 29.8V |

STC irradiance: 1000 W/m² module temperature: +25 °C AM=1.5 NOCT irradiance: 800 W/m² module temperature: +20 °C AM=1.5

I-V curves



TEMPERATURE CHARACTERISTICS

| | |
|---|------------|
| Nominal Operating Cell Temperature (NOCT) | 45±2 °C |
| Temperature Coefficient of P _{max} | -0,41 %/°C |
| Temperature Coefficient of V _{oc} | -0,32 %/°C |
| Temperature Coefficient of I _{sc} | 0.050 %/°C |
| Operating Temperature | -40~+85 °C |

PACKING CONFIGURATION

| | 1640x 992x 35 mm | | |
|-----------------------|------------------|------|------|
| Container | 20GP | 40GP | 40HC |
| Pieces per Pallet | 30 | 30 | 30 |
| Pallets per Container | 14 | 28 | 28 |
| Pieces per Container | 400 | 840 | 924 |

QUALIFICATIONS AND CERTIFICATES



Specifications are subject to change without prior notification