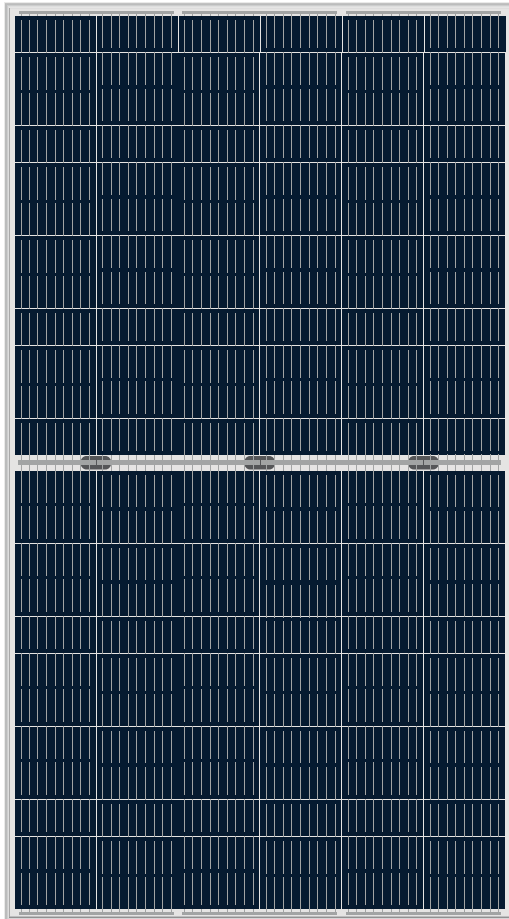








AB-72MHC-BFGG

410W
415W
420W

120 (6x20) 158.75x79.375mm 9BB

Monocrystalline bifacial PV modules



-  At least 30-year product life, more than 10%- 30% additional power gain comparing with conventional module
-  N-type solar cell has no LID naturally, can increase power generation
-  High power and 1500V system voltage, saving BOS cost
-  Wide spectral response, higher power output even under low-light settings like smog or cloudy days
-  Higher power generation under working conditions, thanks to passivating contact cell technology
-  BIPV, vertical installation, snowfield, high-humid area, windy and dusty area

WHY ABI-SOLAR?

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

15

YEAR

Production guarantee

25

YEAR WARRANTY

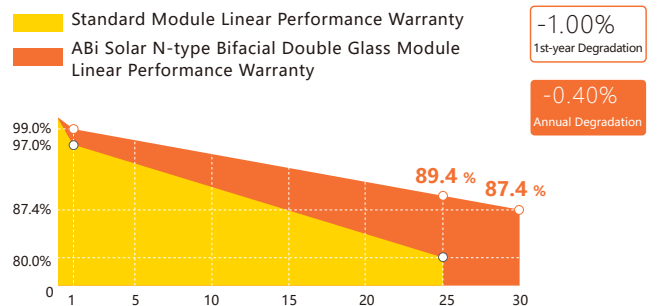
89,4% Power Output

30

YEAR WARRANTY

87,4% Power Output

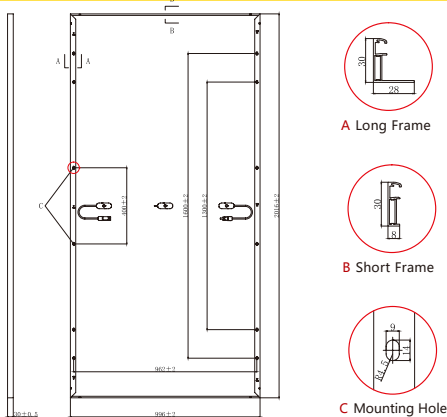
INDUSTRY-LEADING WARRANTY BASED ON NOMINAL POWER



15 years production guarantee

25 year 89,4% power output, 30 years - 87,4%

MECHANICAL DRAWINGS



MECHANICAL SPECIFICATIONS

Cell type	158.75mm×79.375mm
Number of cells	120pcs(12×10)
Dimensions (A×B×C)	1690mm×996mm×30mm
Weight	26 Kg
Front Glass*	2.0mm/2.0mm
Frame	Double Glass
Junction Box	IP67 (3 diodes)
Connector	MC4 Compatible
Output cables*	4.0mm ² , 300mm

*Heat strengthened glass

*Cable length can be customized

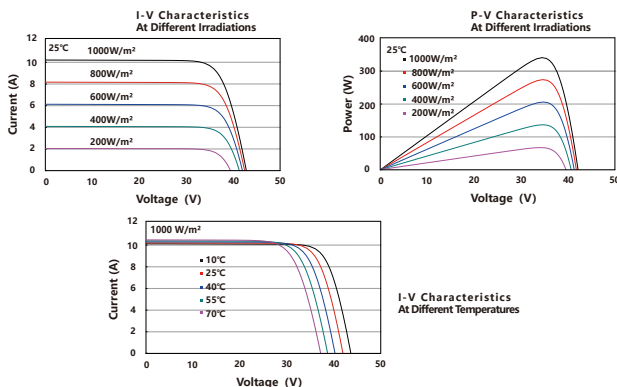
ELECTRICAL CHARACTERISTICS (STC)

	AB410-72MHC-BFGG	AB415-72MHC-BFGG	AB420-72MHC-BFGG
Maximum Power (Pmax)	340W	345W	350W
Shot Circuit Current (Isc)	42.1A	42.4A	42.7A
Open Circuit Voltage (Voc)	10.24V	10.29V	10.34V
Maximum Power Current (Impp)	9.74A	9.79A	9.84A
Maximum Power Voltage (Vmpp)	50.4V	50.7V	51.0V
Module Efficiency	20.20%	20.50%	20.79%
Power Tolerance	0~+5W		

NOCT

	AB410-72MHC-BFGG	AB415-72MHC-BFGG	AB420-72MHC-BFGG
Maximum Power (Pmax)	310W	314W	318W
Shot Circuit Current (Isc)	8.26A	8.30A	8.34A
Open Circuit Voltage (Voc)	48.2V	48.5V	48.7V
Maximum Power Current (Impp)	7.85A	7.89A	7.93A
Maximum Power Voltage (Vmpp)	39.5V	39.8V	40.0V
Maximum System Voltage	1500V (IEC)		
Maximum Series Fuse	20A		

STC irradiance: 1000 W/m² module temperature: +25 °C AM=1,5



NOCT irradiance: 800 W/m² module temperature: +20 °C AM=1

TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	42±2°C
Temperature Coefficient of Pmax	-0.320%/°C
Temperature Coefficient of Voc	-0.260%/°C
Temperature Coefficient of Isc	+0.046%/°C
Operating Temperature	-40°C ... +85°C

PACKING CONFIGURATION

	158.75×79.375mm		
Container	20'GP	40'GP	40HQ
Pieces per Pallet	35		
Pallets per Container	5	11	22
Pieces per Container	175	385	770

* 27+2 pieces per pallet is the special package which only suits for container transport

QUALIFICATIONS AND CERTIFICATES



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