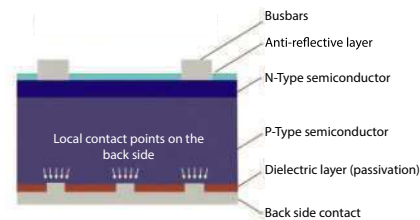
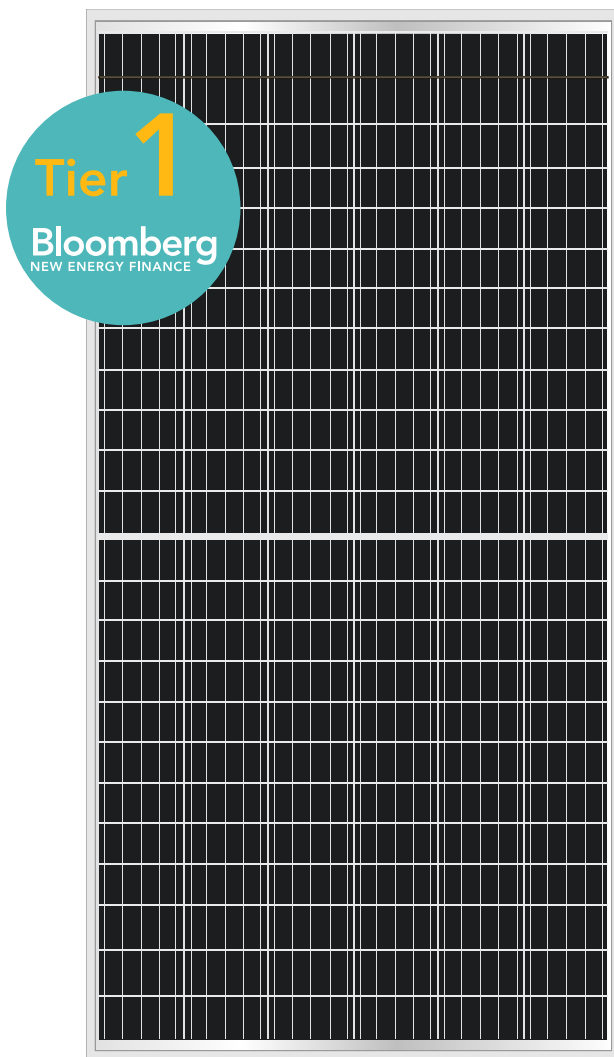


AB-72MHC

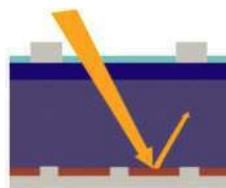
144 (6×24) 166×83mm

430W
435W
440W
445W

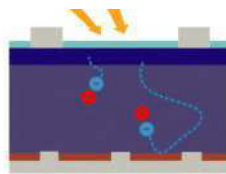
Monocrystalline PV modules



**Technology
PERC**



Increasing the absorption capacity of the photocell

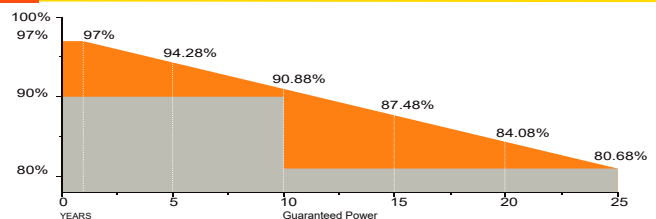


Reflection of electrons in the p-n transition zone

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_{nom})

25-year transferrable power output warranty:

95% - 5 years; 90% - 12 years; 85% - 18 years; 80% - 25 years

12-year material and workmanship

12

YEAR

Manufacturing Warranty

12

YEAR WARRANTY

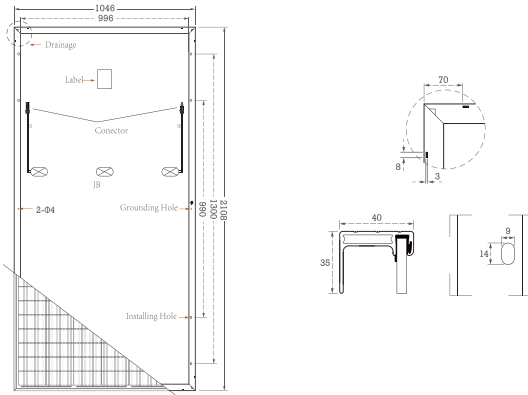
90% Power Output

25

YEAR WARRANTY

80% Power Output

MECHANICAL DRAWINGS



MECHANICAL SPECIFICATIONS

Cell type	Mono crystalline
Number of cell	144 (2*(6*12)), 166x83 mm
Dimensions (AxBxC)	2008x1046x40 mm
Weight	24 kg
Front glass	3.2 mm AR coating tempered glass, low iron
Frame	Anodized aluminium alloy
Junction Box	IP68, 3 diodes
Connector	MC4 Compatible
Output cables	length: 1200 mm, 4.0 mm ²
Maximum snow load (IEC 61215)	5400Pa

ELECTRICAL CHARACTERISTICS (STC)

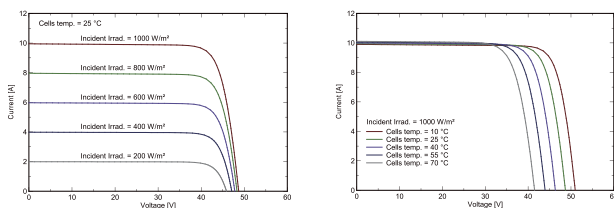
	AB430-72MHC	AB435-72MHC	AB440-72MHC	AB445-72MHC
Maximum Power (Pmax)	430W	435W	440W	445W
Shot Circuit Current (Isc)	11.19A	11.26A	11.33A	11.40A
Open Circuit Voltage (Voc)	49.2V	49.4V	49.6V	49.8V
Maximum Power Current (Imp)	10.60A	10.67A	10.74A	10.81A
Maximum Power Voltage (Vmpp)	40.6V	40.8V	41.0V	41.2V
Module Efficiency	19.5%	19.7%	19.9%	20.2%
Power Tolerance	(0~+5 W)			
Maximum System Voltage	VDC 1000V			
Maximum Series Fuse	20A			

NOCT

	AB430-72MHC	AB435-72MHC	AB440-72MHC	AB445-72MHC
Maximum Power (Pmax)	320W	324W	327W	331W
Shot Circuit Current (Isc)	9.09A	9.14A	9.20A	9.26A
Open Circuit Voltage (Voc)	45.46V	45.65V	45.83V	46.02V
Maximum Power Current (Imp)	8.34A	8.39A	8.45A	8.50A
Maximum Power Voltage (Vmpp)	38.40V	38.59V	38.78V	38.97V

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 Curve



TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	45±2 °C
Temperature Coefficient of Pmax	-0,37 %/°C
Temperature Coefficient of Voc	-0,29 %/°C
Temperature Coefficient of Isc	0.05 %/°C
Operating Temperature	-40~+85 °C

PACKING CONFIGURATION

	2008x 1046x 40 mm	
Container	20'GP	40'HQ
Pieces per Pallet	26	27
Pallets per Container	10	22
Pieces per Container	260	616

* (27+27+6)pieces per stack is the special package which only suits for container transport.

QUALIFICATIONS AND CERTIFICATES



Specifications are subject to change without prior notification