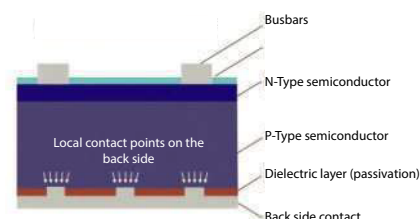
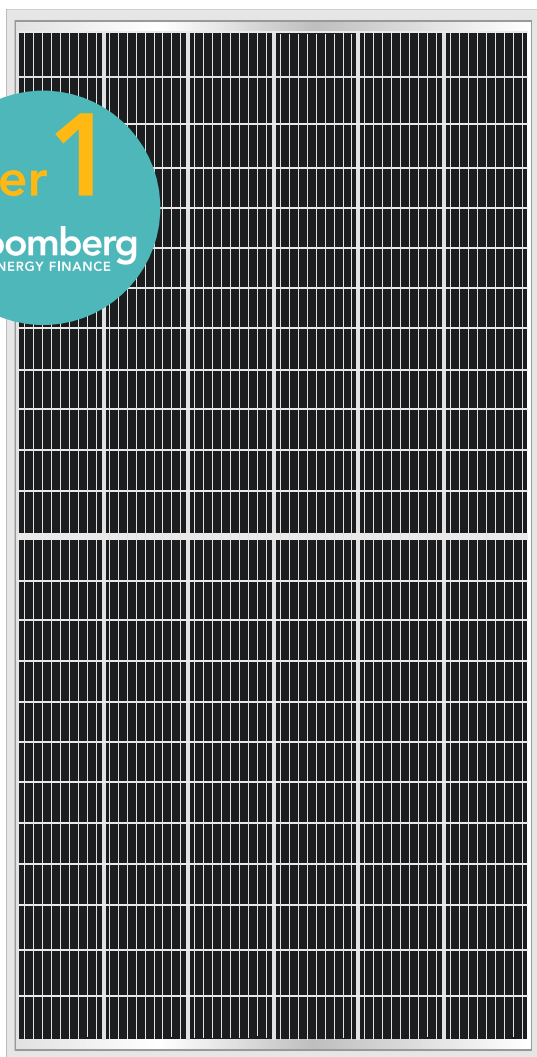
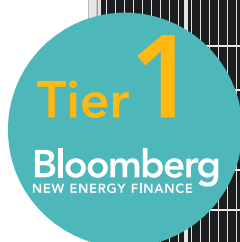


# AB-72MHC

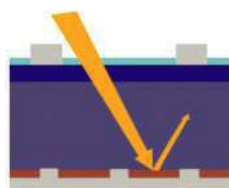
144 (6×24) 166×83mm

440W  
445W  
450W

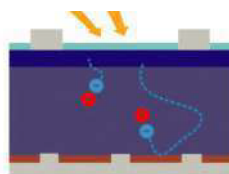
## Monocrystalline PV modules



**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.

**12**

**YEAR**

Manufacturing Warranty

**12**

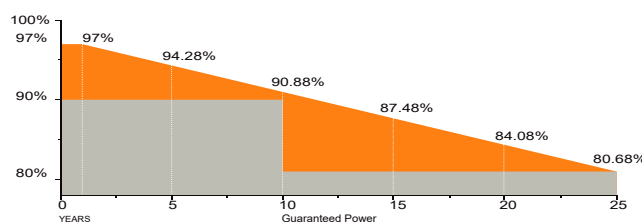
**YEAR WARRANTY**

90% Power Output

**25**

**YEAR WARRANTY**

80% Power Output



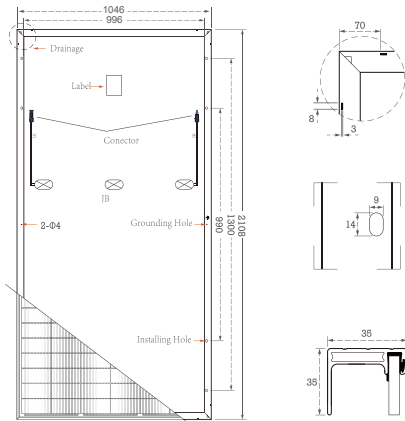
Based of nominal power (P<sub>nom</sub>)

25-year transferrable power output warranty:

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

12-year material and workmanship

## MECHANICAL DRAWINGS



## MECHANICAL SPECIFICATIONS

Cell type	PERC Monocrystalline
Number of cell	144pcs(2*(6*12)), 166×83 mm
Dimensions (A×B×C)	2108×1046×35 mm
Weight	24 kg
Front glass	3.2 mm AR coating tempered glass, low iron
Frame	Anodized Aluminium Alloy
Junction Box	IP67
Connector	MC4 Compatible
Output cables	length: 1200 mm, 4.0 mm <sup>2</sup>
Maximum snow load (IEC 61215)	5400Pa

## ELECTRICAL CHARACTERISTICS (STC)

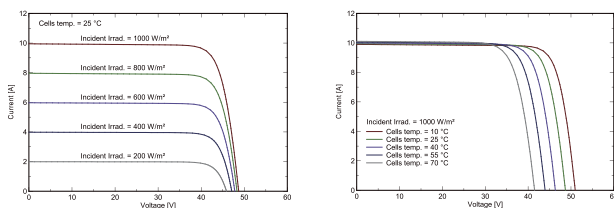
	AB440-72MHC	AB445-72MHC	AB450-72MHC
Maximum Power (Pmax)	440W	445W	450W
Shot Circuit Current (Isc)	11.33A	11.40A	11.47A
Open Circuit Voltage (Voc)	50.08V	50.24V	50.40V
Maximum Power Current (Imp)	10.74A	10.81A	10.90A
Maximum Power Voltage (Vmpp)	40.97V	41.17V	41.30V
Module Efficiency	19.96%	20.18%	20.41%
Power Tolerance	(0~+5W)		
Maximum System Voltage	VDC 1000V/1500V		
Maximum Series Fuse	15A		

## NOCT

	AB440-72MHC	AB445-72MHC	AB450-72MHC
Maximum Power (Pmax)	334W	338W	342W
Shot Circuit Current (Isc)	9.20A	9.26A	9.31A
Open Circuit Voltage (Voc)	47.44V	47.59V	47.76V
Maximum Power Current (Imp)	8.66A	8.71A	8.79A
Maximum Power Voltage (Vmpp)	38.61V	38.81V	38.94V

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 Curve



## PACKING CONFIGURATION

	2108x 1046x 35 mm
Container	40'HQ
Pieces per Pallet	31
Pallets per Container	22
Pieces per Container	704

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

## 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

## QUALIFICATIONS AND CERTIFICATES



Specifications are subject to change without prior notification