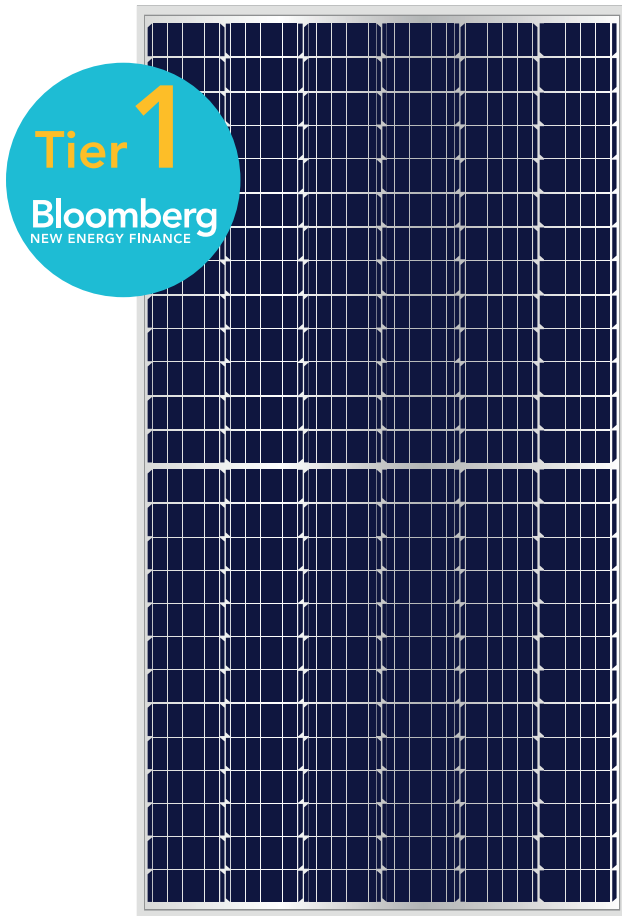


AB-78MHC

156 (2x(6x13)) 182mmx91mm

575W
580W
585W
590W

PERC Monocrystalline 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.

12

YEAR

Manufacturing Warranty

12

YEAR WARRANTY

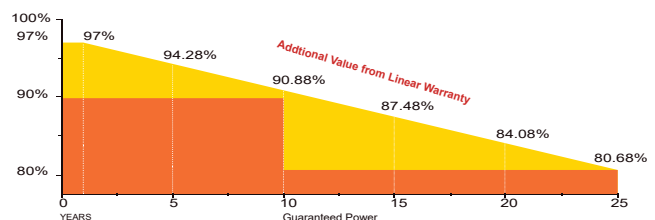
90% Power Output

25

YEAR WARRANTY

80% Power Output

INDUSTRY-LEADING WARRANTY BASED ON NOMINAL POWER



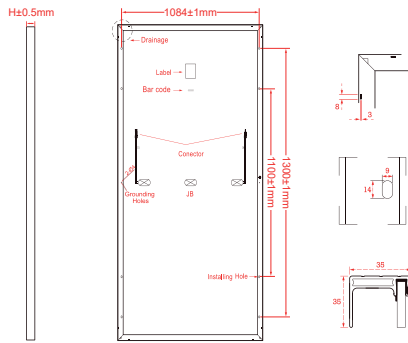
Based of nominal power (P_{nom})

25-year transferrable power output warranty:

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

12-year material and workmanship

MECHANICAL DRAWINGS



MECHANICAL SPECIFICATIONS

Cell type	Perc Mono crystalline
Number of cell	156(2x(6x13))
Dimensions (AxBxC)	2464x1134x35mm
Weight	32.1 kg
Font glass	3.2mm Tempered Glass
Frame	Anodized aluminium alloy
Junction Box	IIP68
Connector	MC4 Compatible
Output cables	TUV, length: $\pm 900 \text{ mm}$, 4.0 mm^2
Maximum snow load (IEC 61215)	5400Pa

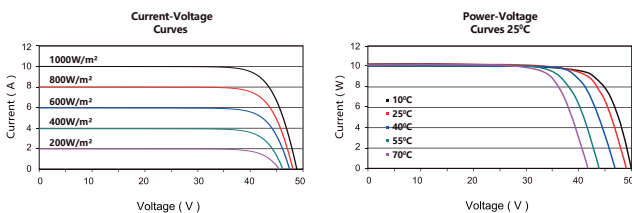
ELECTRICAL CHARACTERISTICS (STC)

	AB575-78MHC	AB580-78MHC	AB585-78MHC	AB590-78MHC
Maximum Power (Pmax)	575W	580W	585W	590W
Shot Circuit Current (Isc)	13.69A	13.77A	13.85A	13.97A
Open Circuit Voltage (Voc)	53.43V	53.54V	53.65V	53.76V
Maximum Power Current (Imp)	13.01A	13.09A	13.18A	13.27A
Maximum Power Voltage (Vmpp)	44.22V	44.34V	44.41V	44.49V
Module Efficiency	20.58%	20.76%	20.94%	21.12%
Power Tolerance	(0~+5W)			
Maximum System Voltage	1500V DC(IEC)			
Maximum Series Fuse	25A			

NOCT

	AB575-78MHC	AB580-78MHC	AB585-78MHC	AB590-78MHC
Maximum Power (Pmax)	428W	432W	435W	439W
Shot Circuit Current (Isc)	11.06A	11.12A	11.19A	11.27A
Open Circuit Voltage (Voc)	50.43V	50.54V	50.64V	50.75V
Maximum Power Current (Imp)	10.41A	10.47A	10.51A	10.59A
Maximum Power Voltage (Vmpp)	41.14V	41.29V	41.39V	41.46V

STC irradiance: 1000 W/m^2 module temperature: $+25 \text{ }^\circ\text{C}$ AM=1.5 NOCT irradiance: 800 W/m^2 module temperature: $+20 \text{ }^\circ\text{C}$ AM=1.5



TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	$45 \pm 2 \text{ }^\circ\text{C}$
Temperature Coefficient of Pmax	$-0,35 \text{ } \%/^\circ\text{C}$
Temperature Coefficient of Voc	$-0,28 \text{ } \%/^\circ\text{C}$
Temperature Coefficient of Isc	$0,048 \text{ } \%/^\circ\text{C}$
Operating Temperature	$-40 \sim +85 \text{ }^\circ\text{C}$

PACKING CONFIGURATION

	2464x1134x35mm
Container	40' HQ
Pieces per Pallet	31
Pallets per Container	16
Pieces per Container	496

QUALIFICATIONS AND CERTIFICATES

