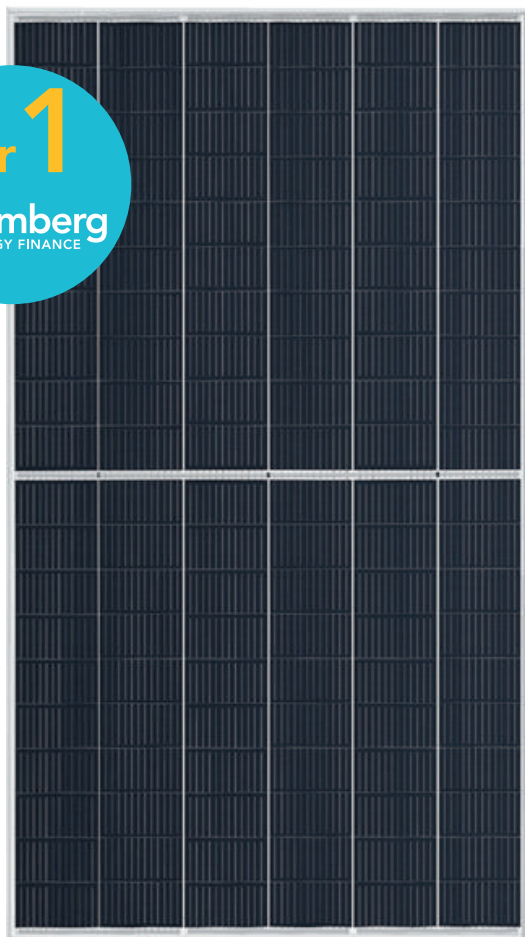


AB-60MHC

120 (2x(6x10))210mmx105mm

590W
595W
600W
605W

PERC Monocrystalline PV modules



Power tolerance (0~+4.99%) to ensure the high reliability of power output



Modules certified by TÜV to with stand 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 diods 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 environment management system: ISO9001 and ISO14001.
- Maximum power and performance at minimal price ensure fast return of investments.
- Compatability with both on-grid and off-grid PV systems ga-rated.

15

YEAR

Manufacturing Warranty

15

YEAR WARRANTY

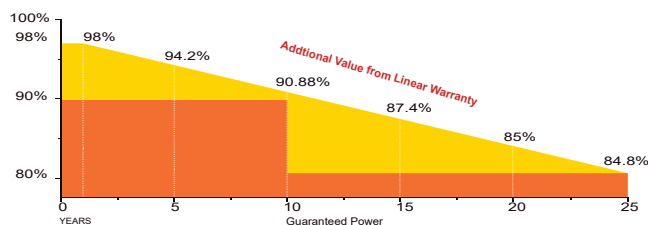
87.4% Power Output

25

YEAR WARRANTY

84.8% Power Output

INDUSTRY-LEADING WARRANTY BASED ON NOMINAL POWER



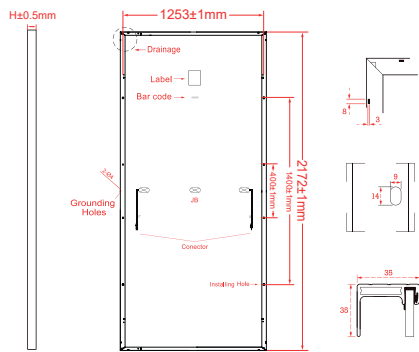
Based of nominal power (P_{nom})

25-year transferrable power output warranty:

94,2% - 5 years; 87,4% - 15 years; 84,8% - 25 years

15-year material and workmanship

MECHANICAL DRAWINGS



MECHANICAL SPECIFICATIONS

Cell type	Perc Mono crystalline
Number of cell	120 (2x(6x10))
Dimensions (AxBxC)	2172x1303x35 mm
Weight	30.9 kg
Front glass	3.2mm Tempered Glass
Frame	Anodized aluminium alloy
Junction Box	IP68
Connector	MC4 Compatible
Output cables	TUV, length: $\pm 900 \text{ mm}$, 4.0 mm^2
Maximum snow load	5400Pa

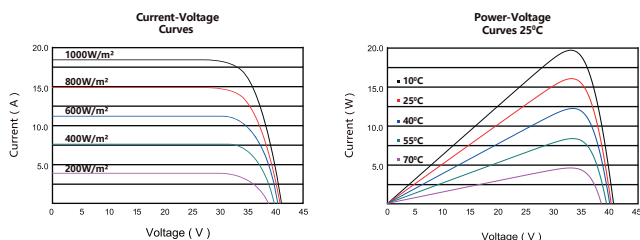
ELECTRICAL CHARACTERISTICS (STC)

	AB590-60MHC	AB595-60MHC	AB600-60MHC	AB605-60MHC
Maximum Power (Pmax)	590W	595W	600W	605W
Short Circuit Current (Isc)	18.42A	18.47A	18.52A	18.57A
Open Circuit Voltage (Voc)	41.12V	41.31V	41.52V	41.72V
Maximum Power Current (Impp)	17.35A	17.39A	17.44A	17.49A
Maximum Power Voltage (Vmpp)	34.01V	34.22V	34.42V	34.61V
Module Efficiency	20.85%	21.02%	21.20%	21.38%
Power Tolerance	(0~+5W)			
Maximum System Voltage	1500V			
Maximum Series Fuse	30A			

NOCT

	AB590-60MHC	AB595-60MHC	AB600-60MHC	AB605-60MHC
Maximum Power (Pmax)	447W	451W	454W	458W
Short Circuit Current (Isc)	14.85A	14.88A	14.92A	14.96A
Open Circuit Voltage (Voc)	38.72V	38.91V	39.12V	39.31V
Maximum Power Current (Impp)	14.09A	14.13A	14.18A	14.22A
Maximum Power Voltage (Vmpp)	31.73V	31.93V	32.02V	32.21V

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)	$43 \pm 2 \text{ }^\circ\text{C}$
Temperature Coefficient of Pmax	$-0,34 \text{ } \%/^\circ\text{C}$
Temperature Coefficient of Voc	$-0,25 \text{ } \%/^\circ\text{C}$
Temperature Coefficient of Isc	$0,04 \text{ } \%/^\circ\text{C}$
Operating Temperature	$-40 \sim +85 \text{ }^\circ\text{C}$

PACKING CONFIGURATION

	2172x1303x35 mm
Container	40HQ
Pieces per Pallet	31
Pallets per Container	18
Pieces per Container	558

QUALIFICATIONS AND CERTIFICATES

