







AB-78MHC

156 (6x26) 182 mm×91mm

High Efficiency Half-Cell Mono PERC Module





570W
575W
580W
585W

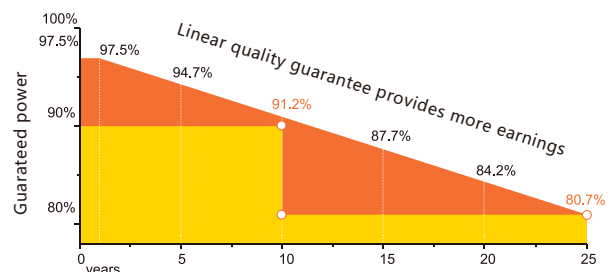
-  Half-cut cell technology New circuit design, lower internal current, lower R_s loss
-  Special circuit design with much lower hot spot temperature
-  Fire safety (Class C, certified to TÜV Rheinland and Rheinland test standards)
-  Resistance to power attenuation passed TÜV Rheinland system voltage endurance test
-  Resistance to salt-spray corrosion (IEC61701, certified to TÜV Rheinland test standard)
-  100% double EL test enabling remarkable reduction of hidden crack rate of modules

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.

INDUSTRY-LEADING WARRANTY BASED ON NOMINAL POWER

-  Standard Performance Warranty
-  Abi-Solar Linear Warranty



15

YEAR

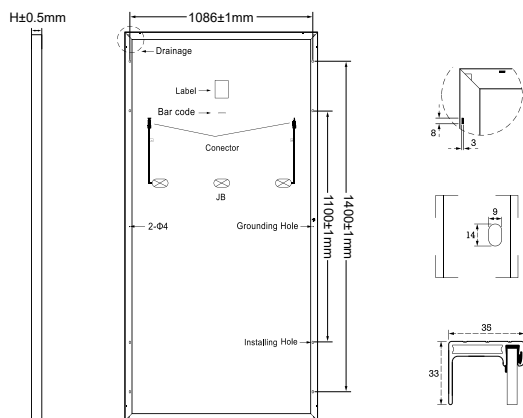
Production guarantee

25

YEAR WARRANTY

80,7% Power Output

MECHANICAL DRAWINGS



MECHANICAL SPECIFICATIONS

Cell type	182 mm×91mm
Number of cells	156 cells (6×26)
Dimensions (A×B×C)	2411mm×1134mm×35mm
Weight	31.1 Kg
Front Glass*	3.2mm AR
Frame	Anodized aluminum alloy
Junction Box	IP67
Connector	MC4 Compatible
Output cables*	4.0mm ²

*High transmittance, Low iron

*Wire length: (+): 290mm, (-): 145mm or Customized Length

ELECTRICAL CHARACTERISTICS (STC)

	AB570-78MHC	AB575-78MHC	AB580-78MHC	AB585-78MHC
Maximum Power (Pmax)	570W	575W	580W	585W
Shot Circuit Current (Isc)	13.61A	13.69A	13.77A	13.85A
Open Circuit Voltage (Voc)	53.32V	53.43V	53.54V	53.65V
Maximum Power Current (Impp)	12.94A	13.01A	13.09A	13.18A
Maximum Power Voltage (Vmpp)	44.07V	44.22V	44.34V	44.41V
Module Efficiency	20.85%	21.03%	21.21%	21.40%

Power Tolerance

0~+5W

NOCT

	AB570-78MHC	AB575-78MHC	AB580-78MHC	AB585-78MHC
Maximum Power (Pmax)	424W	428W	432W	435W
Shot Circuit Current (Isc)	10.99A	11.06A	11.12A	11.19A
Open Circuit Voltage (Voc)	50.33V	50.43V	50.54V	50.64V
Maximum Power Current (Impp)	10.34A	10.41A	10.47A	10.51A
Maximum Power Voltage (Vmpp)	41.02V	41.14V	41.29V	41.39V
Maximum System Voltage	1500V (IEC)			
Maximum Series Fuse	25A			

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

NOCT irradiance: 800 W/m² module temperature: +20 °C AM=1,5

TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.350%/°C
Temperature Coefficient of Voc	-0.280%/°C
Temperature Coefficient of Isc	+0.048%/°C
Operating Temperature	-40°C ... +85°C

QUALIFICATIONS AND CERTIFICATES



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PACKING CONFIGURATION

	2411mm×1134mm×35mm
Container	40HQ
Pieces per Pallet	31
Pallets per Container	16
Pieces per Container	496