







# AB-72MHC

144 (6x24) 182 mm×91mm

## High Efficiency Half-Cell Mono PERC Module





520W  
530W  
540W  
550W

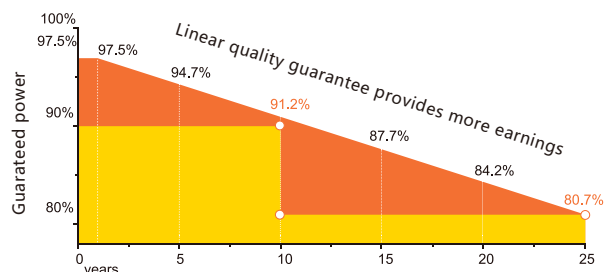
-  Half-cut cell technology New circuit design, lower internal current, lower  $R_s$  loss
-  Special circuit design with much lower hot spot temperature
-  Fire safety (Class C, certified to TÜV Rheinland and Rheinland test standards)
-  Resistance to power attenuation passed TÜV Rheinland system voltage 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

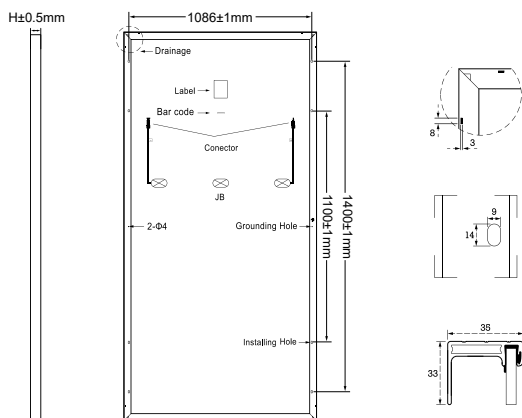
-  Standard Performance Warranty
-  Abi-Solar Linear Warranty



**15** YEAR  
Production guarantee

**25** YEAR WARRANTY  
80,7% Power Output

## MECHANICAL DRAWINGS



## MECHANICAL SPECIFICATIONS

Cell type	182 mm×91mm
Number of cells	144 cells (6×24)
Dimensions (A×B×C)	2274 mm×1134 mm×35mm
Weight	28.9 Kg
Front Glass*	3.2mm AR
Frame	Anodized aluminum alloy
Junction Box	IP67
Connector	MC4 Compatible
Output cables*	4.0mm <sup>2</sup>

\*High transmittance, Low iron

\*Wire length: (+): 250mm, (-): 150mm or Customized Length

## ELECTRICAL CHARACTERISTICS (STC)

	AB520-72MHC	AB530-72MHC	AB540-72MHC	AB550-72MHC
Maximum Power (Pmax)	520W	530W	540W	550W
Shot Circuit Current (Isc)	13.57A	13.71A	13.85A	14.04A
Open Circuit Voltage (Voc)	49.10V	49.26V	49.42V	49.60V
Maximum Power Current (Impp)	12.86A	13.08A	13.27A	13.48A
Maximum Power Voltage (Vmpp)	40.44V	40.54V	40.71V	40.83V
Module Efficiency	20.17%	20.55%	20.94%	21.33%
Power Tolerance	0~+5W			

## NOCT

	AB520-72MHC	AB530-72MHC	AB540-72MHC	AB550-72MHC
Maximum Power (Pmax)	387W	394W	402W	410W
Shot Circuit Current (Isc)	10.96A	11.07A	11.19A	11.35A
Open Circuit Voltage (Voc)	46.34V	46.50V	46.65V	46.82V
Maximum Power Current (Impp)	10.32A	10.41A	10.56A	10.73A
Maximum Power Voltage (Vmpp)	37.54V	37.86V	38.11V	38.25V
Maximum System Voltage	1500V (IEC)			
Maximum Series Fuse	25A			

**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

## TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	42±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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### CIS

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## PACKING CONFIGURATION

	2274mm×1134mm×35mm
Container	40HQ
Pieces per Pallet	31
Pallets per Container	20
Pieces per Container	620