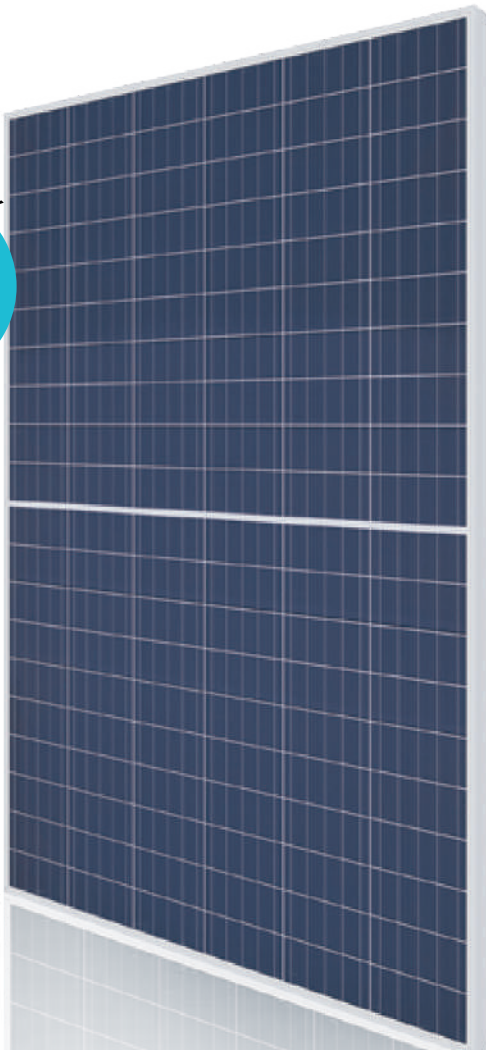


AB-60PHC

Lower current and series resistance

Half Cell polycrystalline PV modules

280W
285W
290W



10

YEAR

Manufacturing Warranty

25

YEAR WARRANTY

80% Power Output



Higher output, efficiency & ROI due to reduced "Cell To Module" loss.



6% Less Internal Power Loss due to shorter ribbon length.



50% Higher Yield due to better shading response

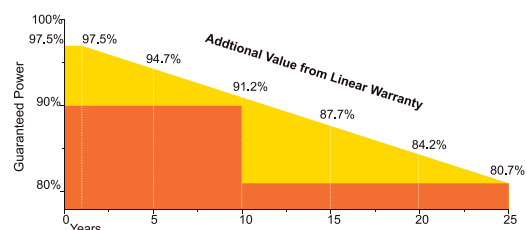


Twice Less Mismatch Loss due to double internal strings of cells.

WHY ABI-SOLAR?

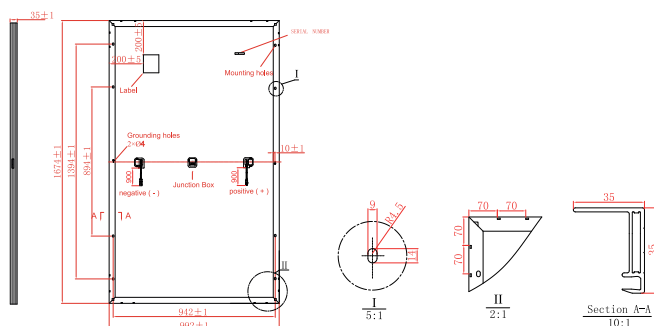
- ① Manufacturing and assembly of PV modules are performed only on East Asian enterprises from **Bloomberg Tier 1** list.
- ① PV modules are tested and demonstrate high reliability in various climatic conditions and in a wide range of insolation.
- ① High efficiency and return on investment guaranteed 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



Specifications are subject to change without prior notification

MECHANICAL DRAWINGS



MECHANICAL SPECIFICATIONS

Cell type	Poly Crystalline
Dimensions (A×B×C)	1674x992x35 mm
Weight	18.5 kg
Front Glass	High transmission tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP67
Connector	MC4 compatible
Output cables	4.0mm ² (IEC) cable length: 900mm
Maximum snow load (IEC 61215)	5400 Pa

ELECTRICAL CHARACTERISTICS (STC)

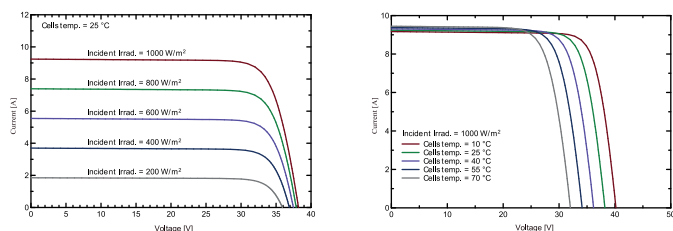
	AB280-60PHC	AB285-60PHC	AB290-60PHC
Maximum Power (P _{max})	280W	285W	290 W
Short Circuit Current (I _{sc})	9.24A	9.32A	9.39A
Open Circuit Voltage (V _{oc})	38.2 V	38.5 V	38.8 V
Maximum Power Current (I _{mpp})	8.75A	8.83A	8.9A
Maximum Power Voltage (V _{mpp})	32.0 V	32.3 V	32.6 V
Module Efficiency	16.8%	17.16%	17.46%
Power Tolerance	0~+4.99 W		
Maximum Series Fuse	20A		
Maximum System Voltage	1000V/1500V DC(IEC)		

NOCT

	AB280-60PHC	AB285-60PHC	AB290-60PHC
Maximum Power (P _{max})	205.8W	209.4W	213.1W
Short Circuit Current (I _{sc})	7.43A	7.50A	7.55A
Open Circuit Voltage (V _{oc})	35.44V	35.72V	36.0V
Maximum Power Current (I _{mpp})	6.98A	7.05A	7.34A
Maximum Power Voltage (V _{mpp})	29.48V	29.76V	30.03V

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 °C ± 2 °C
Temperature Coefficient of P _{max}	- 0.38% °C
Temperature Coefficient of V _{oc}	- 0.30% °C
Temperature Coefficient of I _{sc}	0.05 °C
Operating Temperature	- 40 °C ... +85 °C

PACKING CONFIGURATION

	1674x 992x 35 mm	
Container	20'HQ	40'HQ
Pieces per Pallet	30	30
Pallets per Container	12	26
Pieces per Container	360	780

QUALIFICATIONS AND CERTIFICATES

