ABiSOLAR

AB-60MHC(BF)

300 W
305 W
310 W
315 W
320 W

120 (6×20) 156.75x78.375mm 5BB

Powered by Tier 1 Bloomberg NEW ENERGY FINANCE Manufacturers

Half cell design
The HC design 120-cell brings lower cell connection loss and lower thermal coefficients at high operation temperatures

High Efficiency
Leading PERC technology achieves higher module efficiency up to frontside 19.03% and 22.84% with backside 20% power boost

Excellent Low-light Performance
Advanced solar cell surface texturing technology allows for excellent performance in low-light environments.

High Reliability
0.5% annual degradation. Strict in-house testing in Lab which CNAS & VDE certified to ensure the 30year linear power warranty

Highly Strengthened Design
Framed Double Glass design. Certified to withstand: 5400Pa snow load and 2400Pa wind load

PID Resistant
PID issue is resolved by unique structural design

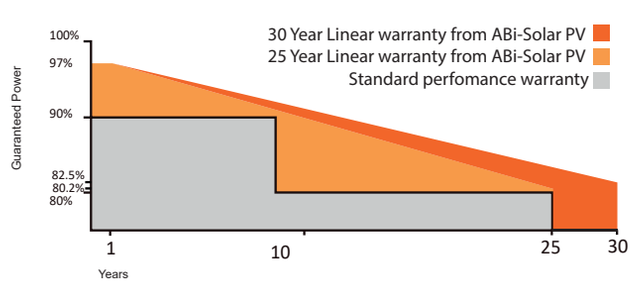
WHY ABI-SOLAR?

- 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 sertified by global testing facilities: IEC61215, IEC61730, CE, ROHS, TÜV.
- Manufacturing with international quality standarts 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 garateed.

10 YEAR
Product Warranty

30 YEAR WARRANTY
Linear Power Warranty

INDUSTRY-LEADING WARANTY BASED ON NOMINAL POWER



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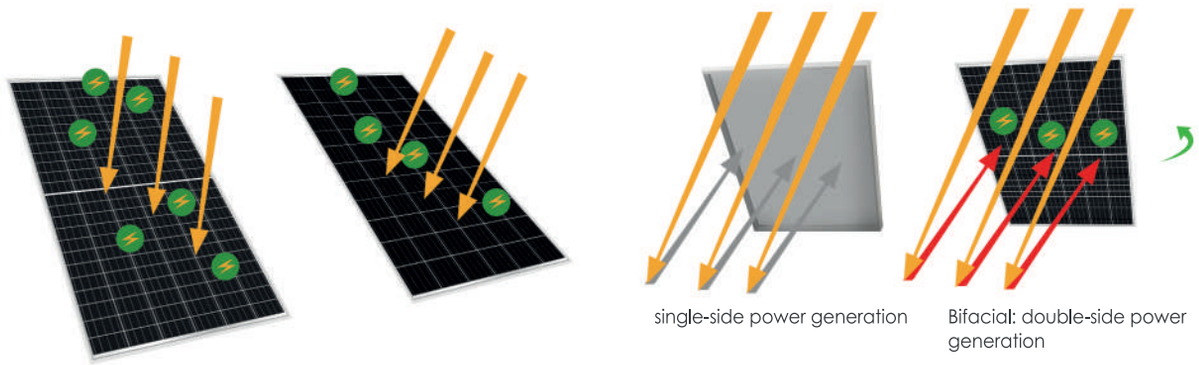
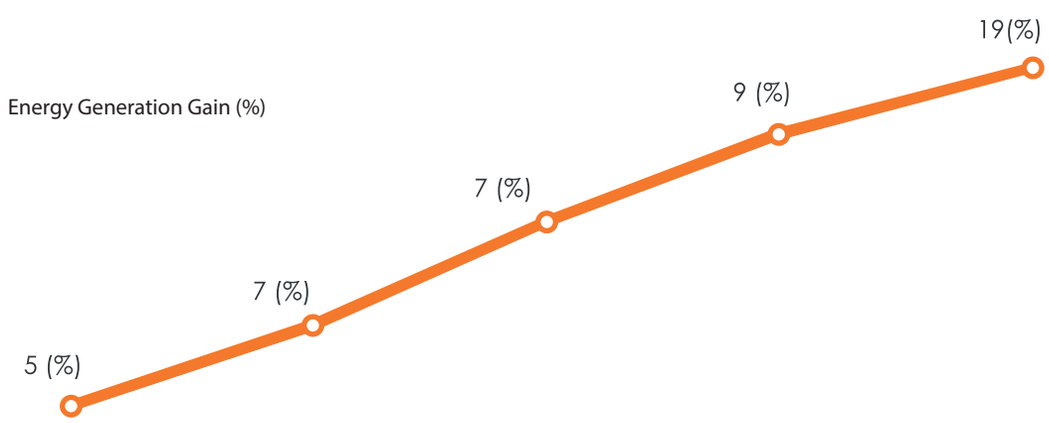
Technological Benefits to Ensure High IRR

Bifacial energy generation



Up to 20% power gain depending on albedo and PV system design

Real Energy Generation Gain



Albedo (%)	Water 2%-5%	Grass 10%-20%	Sand 22%-25%	Cement 30%-33%	White paint 80%-85%

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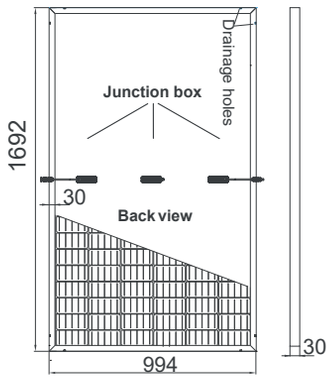
MECHANICAL DRAWINGS



MECHANICAL SPECIFICATIONS

Cell type	Monocrystalline
Dimensions (A×B×C)	1692 x 994 x 30mm
Weight	24.9kg
Frame	Anodized aluminium alloy
Junction	IP67
Connector	MC4 Compatible
Output cables	PV1-F,4MM^2
Maximum snow load (IEC 61215)	5400 Pa

ELECTRICAL CHARACTERISTICS (STC)

	AB300-60MHC(BF)	AB305-60MHC(BF)	AB310-60MHC(BF)	AB315-60MHC(BF)	AB320-60MHC(BF)
Maximum Power (Pmax)	300	305	310	315	320
Shot Circuit Current (Isc)	9,57	9,65	9,73	9,81	9,89
Open Circuit Voltage (Voc)	39,43	39,74	39,98	40,21	40,53
Maximum Power Current (Impp)	9,10	9,18	9,26	9,34	9,42
Maximum Power Voltage (Vmpp)	32,97	33,23	33,48	33,73	33,98
Module Efficiency	17,84	18,13	18,43	18,73	19,03
Power Tolerance	(0~+3%)				
Maximum Series Fuse	15A				
Maximum System Voltage	1500				

NOCT

	AB300-60MHC(BF)	AB305-60MHC(BF)	AB310-60MHC(BF)	AB315-60MHC(BF)	AB320-60MHC(BF)
Maximum Power (Pmax)	222	226	229	233	237
Shot Circuit Current (Isc)	7,92	7,98	8,02	8,08	8,14
Open Circuit Voltage (Voc)	36,45	36,72	37,01	37,33	37,55
Maximum Power Current (Impp)	7,33	7,39	7,44	7,50	7,57
Maximum Power Voltage (Vmpp)	30,32	30,59	31,78	31,07	31,31

STC **irradiance:** 1000 W/m^2 **module temperature:** +25 °C **AM=**1.5 **NOCT** **irradiance:** 800 W/m^2 **module temperature:** +20 °C

BIFACIAL OUTPUT

With 10% Backside Power Boost

Pmax (W)	310	335	341	346	352
Module efficiency (%)	19,62	19,94	20,27	20,60	20,93

With 20% Backside Power Boost

Pmax (W)	360	366	372	378	384
Module efficiency (%)	21,40	21,76	22,12	22,48	22,84

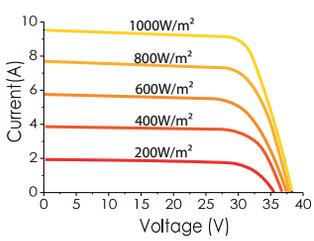
TEMPERATURE CHARACTERISTICS

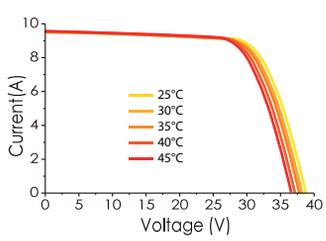
Nominal Operating Cell Temperature (NOCT)	45±2 °C
Temperature Coefficient of Pmax	-0.39 %/°C
Temperature Coefficient of Voc	-0.295%/°C
Temperature Coefficient of Isc	+0.039 % /°C
Operating Temperature	-40~+85 °C

PACKING CONFIGURATION

	1730x 970x1135 mm
Container	40'HC
Pieces per Pallet	30
Weight of packing (kg)	792
Pieces per Container	780

IV- Curves





QUALIFICATIONS AND CERTIFICATES

Specifications are subject to change without prior notification