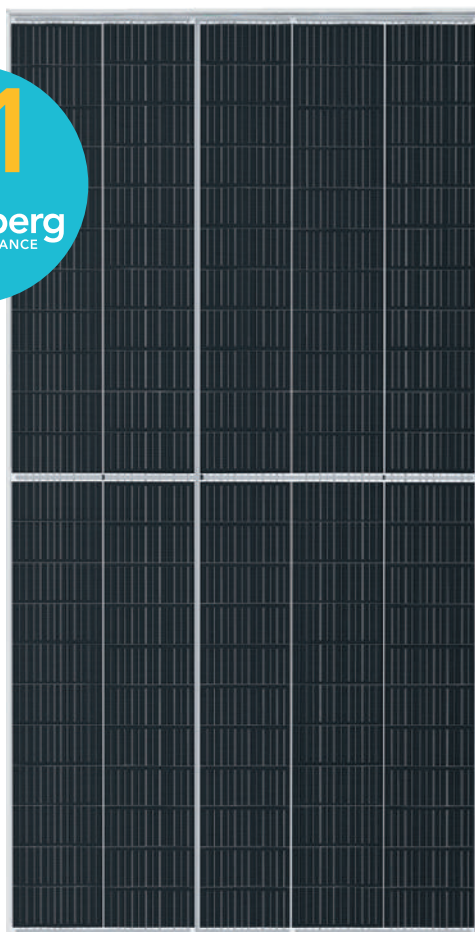


# AB-55MHC

110 (2x(5x11))210mmx105mm

540W  
545W  
550W  
555W

## 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 guaranteed.

15

YEAR

Manufacturing Warranty

15

YEAR WARRANTY

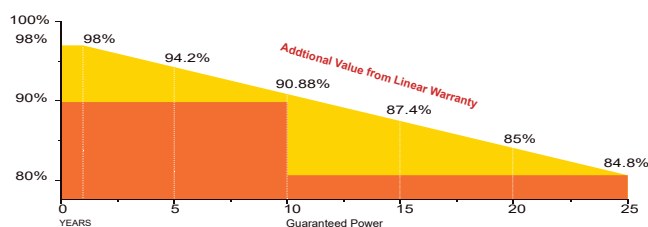
87.4% Power Output

25

YEAR WARRANTY

84.8% Power Output

### INDUSTRY-LEADING WARRANTY BASED ON NOMINAL POWER



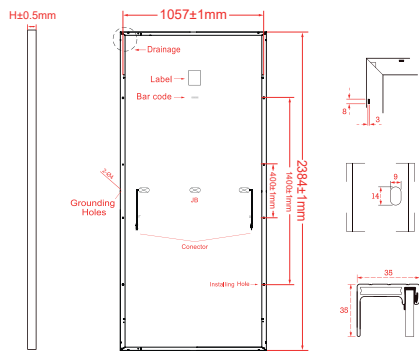
Based of nominal power (P<sub>nom</sub>)

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	110 (2x(5x11))
Dimensions (AxBxC)	2384x1096x35mm
Weight	28.6 kg
Front glass	3.2mm Tempered Glass
Frame	Anodized aluminium alloy
Junction Box	IP68
Connector	MC4 Compatible
Output cables	TUV, length: ±900 mm, 4.0 mm <sup>2</sup>
Maximum snow load	5400Pa

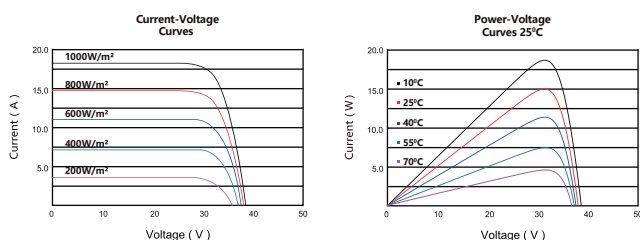
## ELECTRICAL CHARACTERISTICS (STC)

	AB540-55MHC	AB545-55MHC	AB550-55MHC	AB555-55MHC
Maximum Power (Pmax)	540W	545W	550W	555W
Shot Circuit Current (Isc)	18.41A	18.47A	18.52A	18.56A
Open Circuit Voltage (Voc)	37.54V	37.76V	37.95V	38.13V
Maximum Power Current (Impp)	17.31A	17.35A	17.40A	17.44A
Maximum Power Voltage (Vmpp)	31.23V	31.43V	31.62V	31.83V
Module Efficiency	20.67%	20.86%	21.05%	21.24%
Power Tolerance	(0~+5W)			
Maximum System Voltage	1500V			
Maximum Series Fuse	30A			

## NOCT

	AB540-55MHC	AB545-55MHC	AB550-55MHC	AB555-55MHC
Maximum Power (Pmax)	409W	413W	417W	420W
Shot Circuit Current (Isc)	14.84A	14.88A	14.92A	14.96A
Open Circuit Voltage (Voc)	35.3V	35.5V	35.7V	35.9V
Maximum Power Current (Impp)	14.1A	14.15A	14.19A	14.23A
Maximum Power Voltage (Vmpp)	29V	29.2V	29.3V	29.5V

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)	43±2 °C
Temperature Coefficient of Pmax	-0,34 %/°C
Temperature Coefficient of Voc	-0,25 %/°C
Temperature Coefficient of Isc	0,04 %/°C
Operating Temperature	-40~+85 °C

## PACKING CONFIGURATION

	2384x1096x35mm
Container	40HQ
Pieces per Pallet	31
Pallets per Container	20
Pieces per Container	620

## QUALIFICATIONS AND CERTIFICATES

