



**350 - 370 Wp**

**AXITEC**  
high quality german solar brand

## AXIbiprotect XL HC BLK

High performance bifacial solar module  
120 halfcell, glass/glass, monocrystalline

The advantages:

- 15** Years 15 years Manufacturer's warranty
- +25%** Up to 25 % more power output by Bifacial-Technology
- PID less** Less PID through glass/glass-technology
- + Wp** Guaranteed positive power tolerance from 0-5 Wp by individual measurement
- 100%** 100% visual electroluminescence inspection in production
- Safe** Increased safety trough improved fire protection
- Frame** High stability due to innovative frame design

Exclusive linear AXITEC high performance guarantee!

- 15 years manufacturer's guarantee on 90% of the nominal performance
- 30 years manufacturer's guarantee on 82,5% of the nominal performance

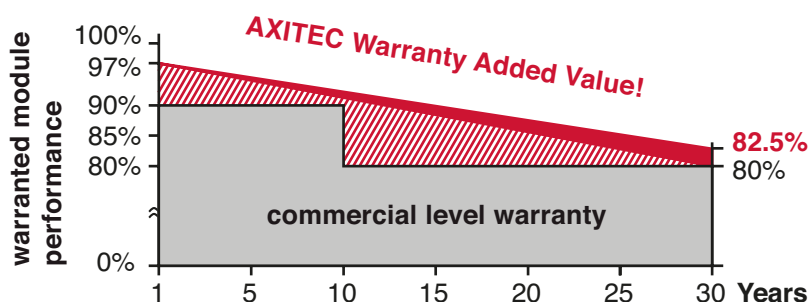


Fig. similar 120MBEN210621A

## AXIbiprotect XL HC BLK 350 - 370 Wp



**Electrical data** (at standard conditions (STC) irradiance 1000 watt/m<sup>2</sup>, spectrum AM 1.5 at a cell temperature of 25°C)

Type	AC-350MB/120V	AC-355MB/120V	AC-360MB/120V	AC-365MB/120V	AC-370MB/120V
Nominal output	<b>350 Wp</b>	<b>355 Wp</b>	<b>360 Wp</b>	<b>365 Wp</b>	<b>370 Wp</b>
Nominal voltage U <sub>mpp</sub>	33.30 V	33.50 V	33,70 V	33.90 V	34.10 V
Nominal current I <sub>mpp</sub>	10.52 A	10.60 A	10.69 A	10.77 A	10.86 A
Short circuit current I <sub>sc</sub>	11.02 A	11.10 A	11.20 A	11.28 A	11.37 A
Open circuit voltag U <sub>oc</sub>	40.50 V	40.70 V	40.90 V	41.10 V	41.30 V
Module conversion efficiency	19.21 %	19.49 %	19.76 %	20.04 %	20.31 %

### Bifacial output - Backside Power gain

	AC-350MB/120V	AC-355MB/120V	AC-360MB/120V	AC-365MB/120V	AC-370MB/120V
10% Power output	385.00 Wp	390.50 Wp	396.00 Wp	401.50 Wp	407.00 Wp
Module Efficiency	21.13 %	21.44 %	21.74 %	22.04 %	22.34 %
15% Power output	402.50 Wp	408.25 Wp	414.00 Wp	419.75 Wp	425.50 Wp
Module Efficiency	22.09 %	22.41 %	22.73 %	23.04 %	23.36 %
20% Power output	420.00 Wp	426.00 Wp	432.00 Wp	438.00 Wp	444.00 Wp
Module Efficiency	23.06 %	23.38 %	23.71 %	24.04 %	24.37 %
25% Power output	437.50 Wp	443.75 Wp	450.00 Wp	456.25 Wp	462.50 Wp
Module Efficiency	24.02 %	24.36 %	24.70 %	25.05 %	25.39 %

### Design

Frontside	2.0 mm hardened, low-reflection white glass
Backside	2.0 mm hardened, low-reflection white glass
Cells	120 bifacial monocrystalline high efficiency cells
Film	Composite film (transparent)
Frame	30 mm black aluminium frame

### Mechanical data

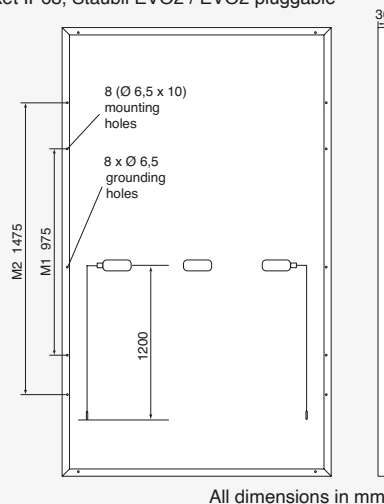
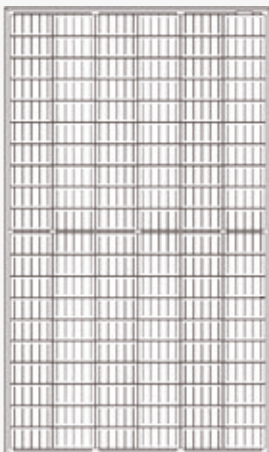
L x W x H	1755x 1038 x 30 mm
Weight	23.5 kg with frame

### Mechanical load

Design load (pressure/suction)	3600 Pa / 1600 Pa
Test load (pressure/suction)	5400 Pa / 2400 Pa

### Power connection

Socket	Protection Class IP68
Wire	approx. 1.2 m, 4 mm <sup>2</sup>
Plug-in system	Plug/socket IP68, Stäubli EVO2 / EVO2 pluggable



### Limit values

System voltage	1500 VDC
NOCT (nominal operating cell temperature)*	45°C +/-2K
Reverse current feed IR	20.0 A
Permissible operating temperature	-40°C to 85°C / -40F to 185F

Bifaciality 70 % ± 10 %

(No external voltages greater than U<sub>oc</sub> may be applied to the module)

\* NOCT, irradiance 800 W/m<sup>2</sup>; AM 1.5; wind speed 1 m/s; Temperature 20°C

### Temperature coefficients

Voltage U <sub>oc</sub>	-0.29 %/K
Current I <sub>sc</sub>	0.048 %/K
Output P <sub>mpp</sub>	-0.35 %/K

### Low-light performance without Bifacial-effect

(Example for AC-370MB/120V)

I-U characteristic curve	Current I <sub>pp</sub>	Voltage U <sub>pp</sub>
200 W/m <sup>2</sup>	2.22 A	32.82 V
400 W/m <sup>2</sup>	4.48 A	33.20 V
600 W/m <sup>2</sup>	6.69 A	33.46 V
800 W/m <sup>2</sup>	8.84 A	33.74 V
1000 W/m <sup>2</sup>	10.86 A	34.10 V

### Packaging

Module pieces per pallet	35
Module pieces per HC-container	910