



400 - 415 Wp

**AXITEC**  
high quality german solar brand

## AXIpremium XXL HC BLK

High performance solar module  
108 halfcell, monocrystalline



German-Australian-Engineering

The advantages:

**15**  
Years

15 years Manufacturer's warranty



High module performance through  
Half-Cut-technology and selected materials



Guaranteed positive selection tolerance  
from 0-5 Wp by individual measurement



100% visual electroluminescence inspection  
in production



High stability due to innovative frame design



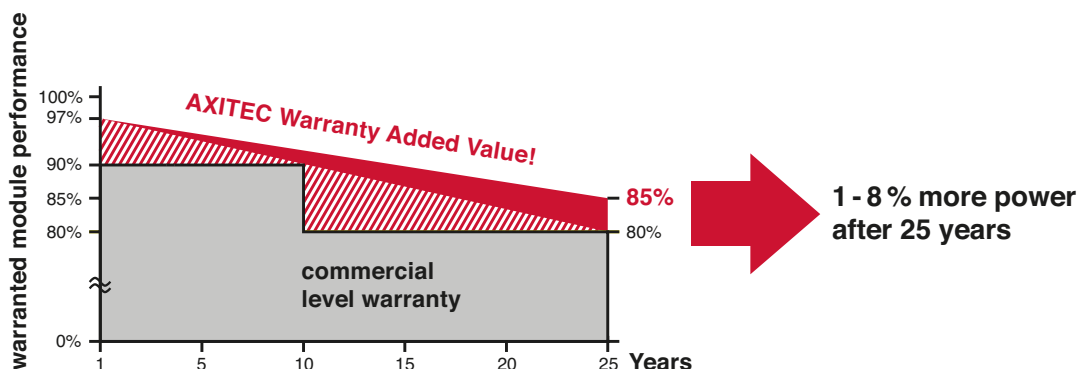
High quality junction box  
and connector systems



Fig. similar 108MHAUS210726A

Exclusive linear AXITEC high performance guarantee!

- 15 years manufacturer's guarantee on 90 % of the nominal performance
- 25 years manufacturer's guarantee on 85 % of the nominal performance



## AXIpremium XXL HC BLK 400 - 415 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            | Nominal output<br>P <sub>mpp</sub> (± 3 %) | Nominal voltage<br>U <sub>mpp</sub> (± 2 %) | Nominal current<br>I <sub>mpp</sub> (± 2 %) | Short circuit current<br>I <sub>sc</sub> (± 2 %) | Open circuit voltage<br>U <sub>oc</sub> (± 2 %) | Module conversion<br>efficiency |
|-----------------|--|---|---|--|---|---------------------------------|
| AC-400MH/108VAU | 400 Wp                                     | 31.20 V                                     | 12.83 A                                     | 13.73 A  | 37.10 V   | 20.46 %                         |
| AC-405MH/108VAU | 405 Wp                                     | 31.40 V                                     | 12.90 A                                     | 13.81 A  | 37.30 V   | 20.72 %                         |
| AC-410MH/108VAU | 410 Wp                                     | 31.60 V                                     | 12.98 A                                     | 13.88 A  | 37.50 V   | 20.97 %                         |
| AC-415MH/108VAU | 415 Wp                                     | 31.80 V                                     | 13.06 A                                     | 13.96 A  | 37.70 V   | 21.23 %                         |

### Design

|           |   |
|-----------|---|
| Frontside | 3.2 mm hardened, low-reflection white glass |
| Cells     | 108 monocrystalline high efficiency cells   |
| Backside  | Composite film                              |
| Frame     | 35 mm black aluminium frame                 |

### Mechanical data

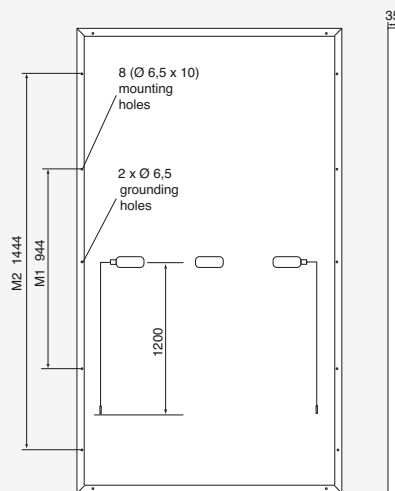
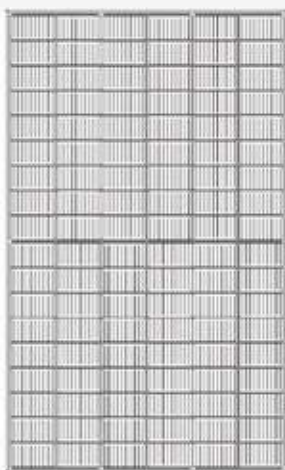
|           |                     |
|-----------|---------------------|
| L x W x H | 1724 x 1134 x 35 mm |
| Weight    | 22.0 kg with frame  |

### 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,<br>Stäubli MC4 PV-KST4-EVO 2 / PV-KBT4-EVO 2 |



All dimensions in mm

### Limit values

|  |            |
|--|------------|
| System voltage                             | 1500 VDC   |
| Module Fire Performance                    | CLASS C    |
| NOCT (nominal operating cell temperature)* | 45°C +/-2K |
| Reverse current feed IR                    | 25.0 A     |

Permissible operating temperature -40°C to 85°C / -40F to 185F

(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> | -0.28 %/K |
| Current I <sub>sc</sub> | 0.045 %/K |
| Output P <sub>mpp</sub> | -0.35 %/K |

### Low-light performance

 (Example for AC-415MH/108VAU)

| I-U characteristic curve | Current I <sub>mpp</sub> | Voltage U <sub>mpp</sub> |
|--------------------------|--------------------------|--------------------------|
| 200 W/m <sup>2</sup>     | 2.67 A                   | 30.60 V                  |
| 400 W/m <sup>2</sup>     | 5.38 A                   | 30.96 V                  |
| 600 W/m <sup>2</sup>     | 8.04 A                   | 31.20 V                  |
| 800 W/m <sup>2</sup>     | 10.64 A                  | 31.47 V                  |
| 1000 W/m <sup>2</sup>    | 13.06 A                  | 31.80 V                  |

### Packaging

|                                |     |
|--------------------------------|-----|
| Module pieces per pallet       | 30  |
| Module pieces per HC-container | 780 |

country of origin:  
made in People's Republic of China