



**390 - 410 Wp**

**AXITEC**  
high quality german solar brand

## AXIpremium XXL HC BLK

High performance solar module  
108 halfcell, monocrystalline

The advantages:



15 years Manufacturer's warranty



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



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



100 % visual electroluminescence inspection  
in production



High stability due to innovative frame design



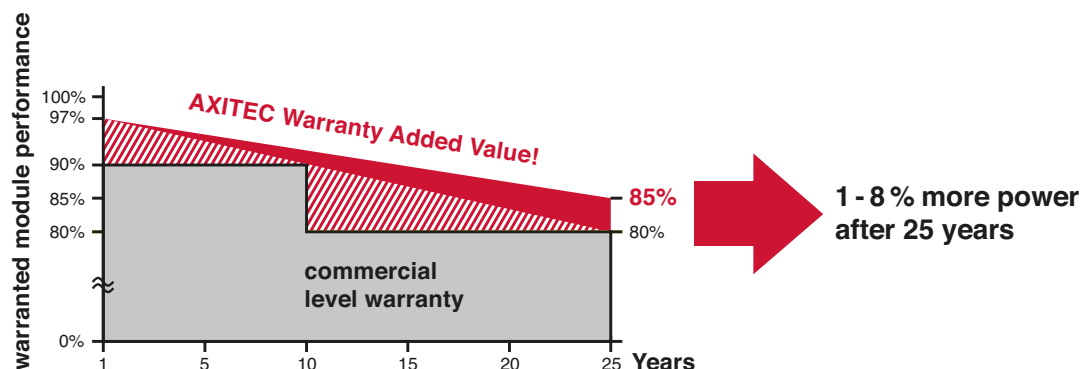
High quality junction box  
and connector systems



Fig. similar 108MHEN210225A

### 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 390 - 410 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> | Nominal voltage<br>U <sub>mpp</sub> | Nominal current<br>I <sub>mpp</sub> | Short circuit current<br>I <sub>sc</sub> | Open circuit voltage<br>U <sub>oc</sub> | Module conversion<br>efficiency |
|---------------|------------------------------------|-------------------------------------|-------------------------------------|------------------------------------------|-----------------------------------------|---------------------------------|
| AC-390MH/108V | 390 Wp                             | 30.80 V                             | 12.67 A                             | 13.56 A                                  | 36.70 V                                 | 19.95 %                         |
| AC-395MH/108V | 395 Wp                             | 31.00 V                             | 12.75 A                             | 13.65 A                                  | 36.90 V                                 | 20.20 %                         |
| AC-400MH/108V | 400 Wp                             | 31.20 V                             | 12.83 A                             | 13.73 A                                  | 37.10 V                                 | 20.46 %                         |
| AC-405MH/108V | 405 Wp                             | 31.40 V                             | 12.90 A                             | 13.81 A                                  | 37.30 V                                 | 20.72 %                         |
| AC-410MH/108V | 410 Wp                             | 31.60 V                             | 12.98 A                             | 13.88 A                                  | 37.50 V                                 | 20.97 %                         |

## 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, Stäubli EVO2 / EVO2 pluggable |

## Limit values

|                                            |            |
|--------------------------------------------|------------|
| System voltage                             | 1500 VDC   |
| 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

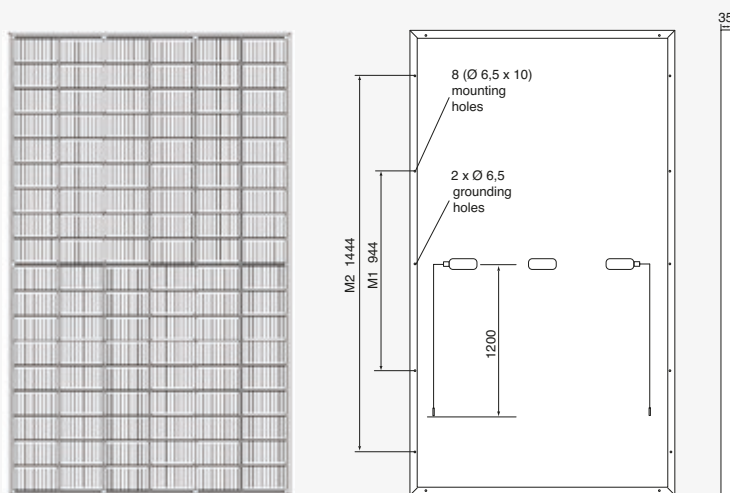
|                         |           |
|-------------------------|-----------|
| Voltage U <sub>oc</sub> | -0.28 %/K |
| Current I <sub>sc</sub> | 0.045 %/K |
| Output P <sub>mpp</sub> | -0.35 %/K |

## Low-light performance (Example for AC-410MH/108V)

| I-U characteristic curve | Current I <sub>pp</sub> | Voltage U <sub>pp</sub> |
|--------------------------|-------------------------|-------------------------|
| 200 W/m <sup>2</sup>     | 2.65 A                  | 30.41 V                 |
| 400 W/m <sup>2</sup>     | 5.35 A                  | 30.76 V                 |
| 600 W/m <sup>2</sup>     | 8.00 A                  | 31.00 V                 |
| 800 W/m <sup>2</sup>     | 10.57 A                 | 31.27 V                 |
| 1000 W/m <sup>2</sup>    | 12.98 A                 | 31.60 V                 |

## Packaging

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



All dimensions in mm