



390 - 415 Wp

AXITEC
high quality german solar brand

AXIpremium XXL HC BLK

High performance solar module
108 halfcell, monocrystalline

The advantages:

- 15** Years 15 years Manufacturer's warranty
- HC** High module performance through Half-Cut-technology and selected materials
- Wp** Guaranteed positive power tolerance from 0-5 Wp by individual measurement
- 100%** 100% visual electroluminescence inspection in production
- Frame** High stability due to innovative frame design
- IP 68** High quality junction box and connector systems

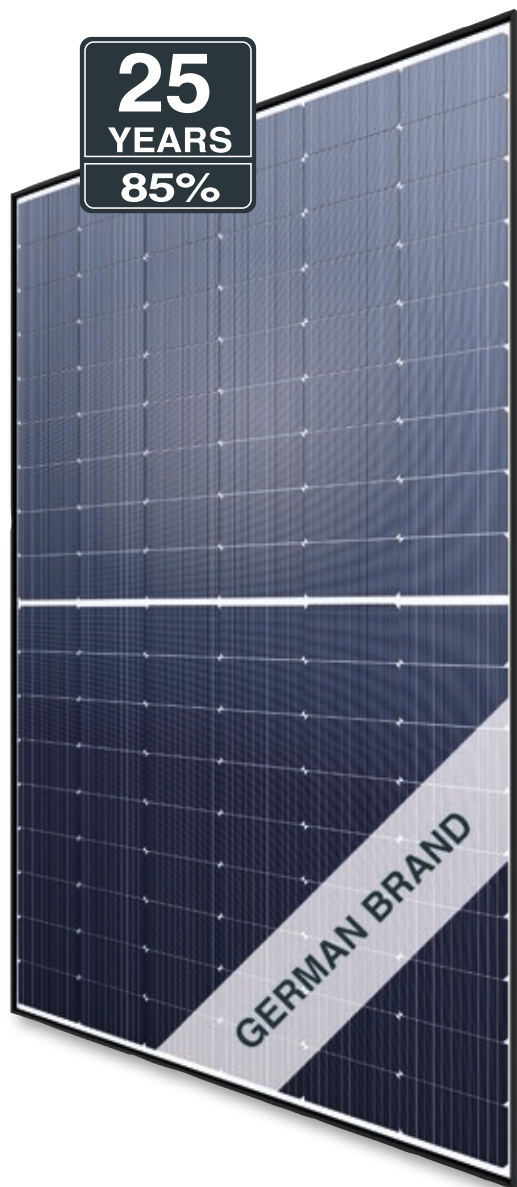
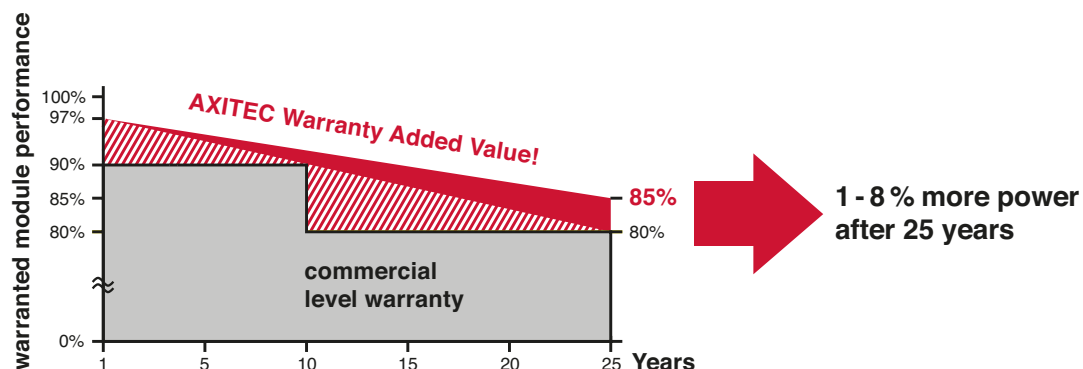


Fig. similar 108MHEN21109A

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 - 415 Wp

Electrical data (at standard conditions (STC) irradiance 1000 watt/m², spectrum AM 1.5 at a cell temperature of 25°C)

| Type | Nominal output P _{mpp} | Nominal voltage U _{mpp} | Nominal current I _{mpp} | Short circuit current I _{sc} | Open circuit voltage U _{oc} | Module conversion efficiency |
|---------------|------------------------------------|-------------------------------------|-------------------------------------|--|---|---------------------------------|
| AC-390MH/108V | 390 Wp | 30.80 V | 12.67 A | 13.56 A | 36.70 V | 19.97 % |
| AC-395MH/108V | 395 Wp | 31.00 V | 12.75 A | 13.65 A | 36.90 V | 20.23 % |
| AC-400MH/108V | 400 Wp | 31.20 V | 12.83 A | 13.73 A | 37.10 V | 20.48 % |
| AC-405MH/108V | 405 Wp | 31.40 V | 12.90 A | 13.81 A | 37.30 V | 20.74 % |
| AC-410MH/108V | 410 Wp | 31.60 V | 12.98 A | 13.88 A | 37.50 V | 21.00 % |
| AC-415MH/108V | 415 Wp | 31.80 V | 13.06 A | 13.96 A | 37.70 V | 21.25 % |

Design

| | |
|-----------|---|
| Frontside | 3.2 mm hardened, low-reflection white glass |
| Cells | 108 monocrystalline high efficiency cells |
| Backside | Composite film |
| Frame | 30 mm black aluminium frame |

Mechanical data

| | |
|-----------|---------------------|
| L x W x H | 1722 x 1134 x 30 mm |
| Weight | 21.8 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 ² |
| 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_{oc} may be applied to the module)

* NOCT, irradiance 800 W/m²; AM 1,5; wind speed 1 m/s; Temperature 20°C

Temperature coefficients

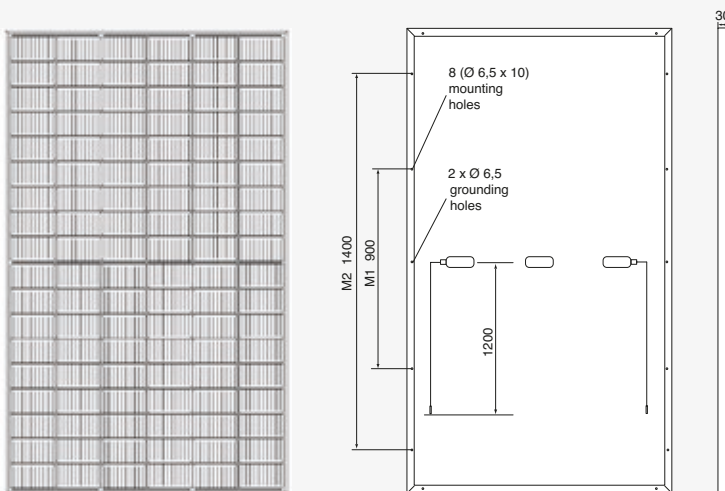
| | |
|-------------------------|-----------|
| Voltage U _{oc} | -0.28 %/K |
| Current I _{sc} | 0.045 %/K |
| Output P _{mpp} | -0.35 %/K |

Low-light performance (Example for AC-415MH/108V)

| I-U characteristic curve | Current I _{pp} | Voltage U _{pp} |
|--------------------------|-------------------------|-------------------------|
| 200 W/m ² | 2.67 A | 30.60 V |
| 400 W/m ² | 5.38 A | 30.96 V |
| 600 W/m ² | 8.04 A | 31.20 V |
| 800 W/m ² | 10.64 A | 31.47 V |
| 1000 W/m ² | 13.06 A | 31.80 V |

Packaging

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



All dimensions in mm