



385 - 415 Wp

25
YEARS
85%



AXIpremium X HC

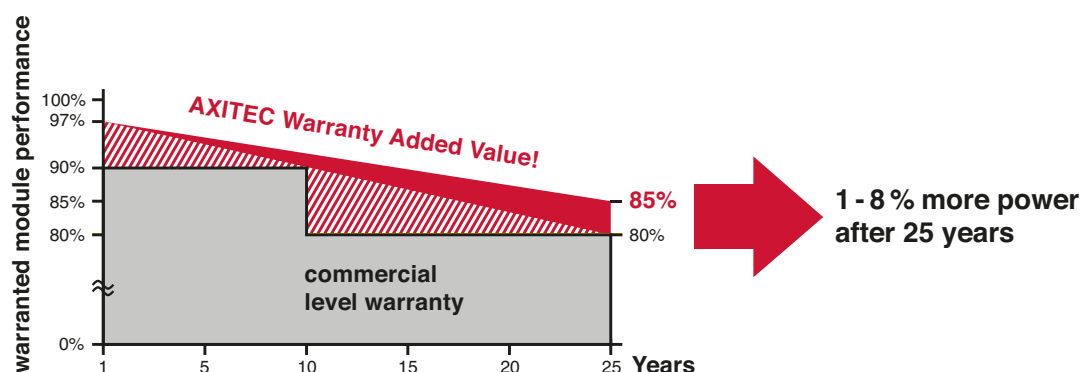
144 halfcell full-square monocrystalline
High performance solar module

The advantages:

- 15** Years 15 years manufacturer's warranty
- HC** Highest module performance through Half-Cut-technology and tested materials
- Wp** Guaranteed positive power tolerance from 0-5 Wp by individual measurement
- 2.400 Pa** Maximum 2400 Pa snow load
- 100%** 100% electroluminescence inspection
- IP 68** High quality junction box and connector systems

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 X HC 385 - 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-385MH/144S | 385 Wp | 40,24 V | 9,58 A | 10,10 A | 48,11 V | 19,14 % |
| AC-390MH/144S | 390 Wp | 40,50 V | 9,64 A | 10,21 A | 48,30 V | 19,38 % |
| AC-395MH/144S | 395 Wp | 40,80 V | 9,69 A | 10,33 A | 48,52 V | 19,63 % |
| AC-400MH/144S | 400 Wp | 41,12 V | 9,74 A | 10,46 A | 48,81 V | 19,88 % |
| AC-405MH/144S | 405 Wp | 41,43 V | 9,79 A | 10,59 A | 49,50 V | 20,13 % |
| AC-410MH/144S | 410 Wp | 41,75 V | 9,83 A | 10,72 A | 49,79 V | 20,38 % |
| AC-415MH/144S | 415 Wp | 41,98 V | 9,89 A | 10,84 A | 50,08 V | 20,63 % |

Design

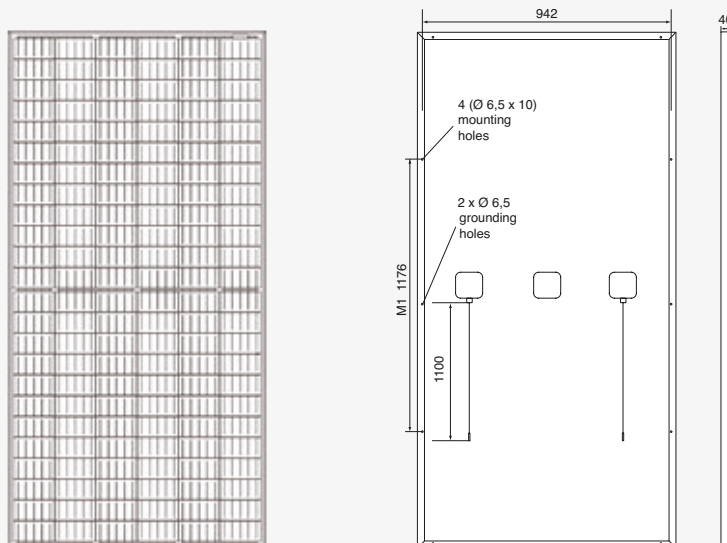
| | |
|-----------|---|
| Frontside | 3,2 mm hardened, low-reflection white glass |
| Cells | 144 monocrystalline high efficiency cells |
| Backside | Composite film |
| Frame | 40 mm silver aluminium frame |

Mechanical data

| | |
|-----------|---------------------|
| L x W x H | 2008 x 1002 x 40 mm |
| Weight | 23,5 kg with frame |

Power connection

| | |
|----------------|----------------------------------|
| Socket | Protection Class IP68 |
| Wire | approx. 1,1 m, 4 mm ² |
| Plug-in system | Plug/socket IP68, Stäubli MC4 |



All dimensions in mm

Limit values

| | |
|--|------------------------------|
| System voltage | 1000 VDC |
| NOCT (nominal operating cell temperature)* | 45°C +/-2K |
| Max. load-carrying capacity | 2400 N/m ² |
| Reverse current feed IR | 20,0 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} | -0,29 %/K |
| Current I _{sc} | 0,04 %/K |
| Output P _{mpp} | -0,39 %/K |

Low-light performance (Example for AC-400MH/144S)

| I-U characteristic curve | Current I _{pp} | Voltage U _{pp} |
|--------------------------|-------------------------|-------------------------|
| 200 W/m ² | 1,98 A | 37,40 V |
| 400 W/m ² | 4,27 A | 38,04 V |
| 600 W/m ² | 6,12 A | 40,88 V |
| 800 W/m ² | 7,94 A | 41,06 V |
| 1000 W/m ² | 9,74 A | 41,12 V |

Packaging

| | |
|--------------------------------|-----|
| Module pieces per pallet | 25 |
| Module pieces per HC-container | 550 |