



## 310 - 325 Wp

### AXIpremium HC

120 halfcell monocrystalline  
High performance solar module

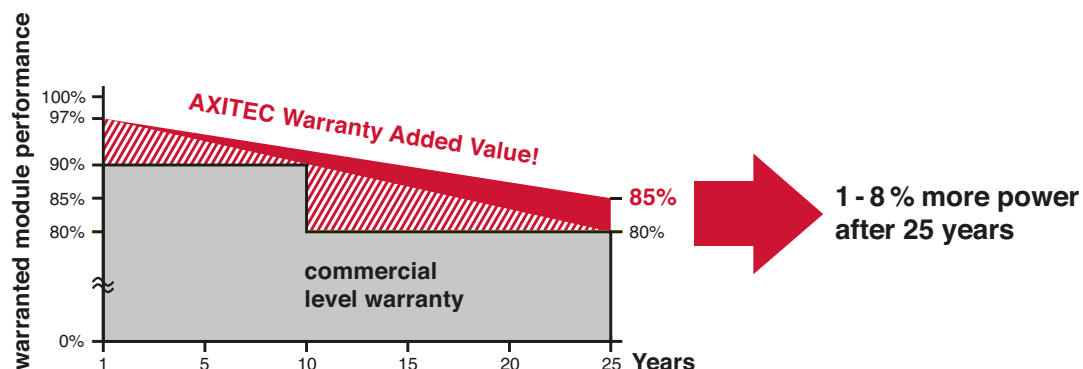
The advantages:

- 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
- 5.400 Pa** Maximum 5400 Pa snow load
- 100%** 100% electroluminescence inspection
- Soft Grip** High stability due to AXITEC-Soft-Grip-Seam aluminium frame construction
- 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 HC 310 - 325 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-310MH/120S | 310 Wp                             | 32,74 V                             | 9,47 A                              | 9,96 A                                   | 40,01 V                                 | 18,66 %                         |
| AC-315MH/120S | 315 Wp                             | 32,97 V                             | 9,56 A                              | 10,03 A                                  | 40,13 V                                 | 18,96 %                         |
| AC-320MH/120S | 320 Wp                             | 33,21 V                             | 9,64 A                              | 10,11 A                                  | 40,25 V                                 | 19,26 %                         |
| AC-325MH/120S | 325 Wp                             | 33,45 V                             | 9,73 A                              | 10,18 A                                  | 40,37 V                                 | 19,56 %                         |

### Design

|           |                                             |
|-----------|---------------------------------------------|
| Frontside | 3,2 mm hardened, low-reflection white glass |
| Cells     | 120 monocrystalline high efficiency cells   |
|           | 156,75 mm x 78,38 mm                        |
| Backside  | Composite film                              |
| Frame     | 35 mm silver aluminium frame                |

### Mechanical data

|           |                    |
|-----------|--------------------|
| L x W x H | 1675 x 992 x 35 mm |
| Weight    | 18,5 kg with frame |

### Power connection

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

### Limit values

|                                            |                              |
|--------------------------------------------|------------------------------|
| System voltage                             | 1000 VDC                     |
| NOCT (nominal operating cell temperature)* | 45°C +/-2K                   |
| Max. load-carrying capacity                | 5400 N/m <sup>2</sup>        |
| Reverse current feed IR                    | 20,0 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> | -0,29 %/K |
| Current I <sub>sc</sub> | 0,04 %/K  |
| Output P <sub>mpp</sub> | -0,39 %/K |

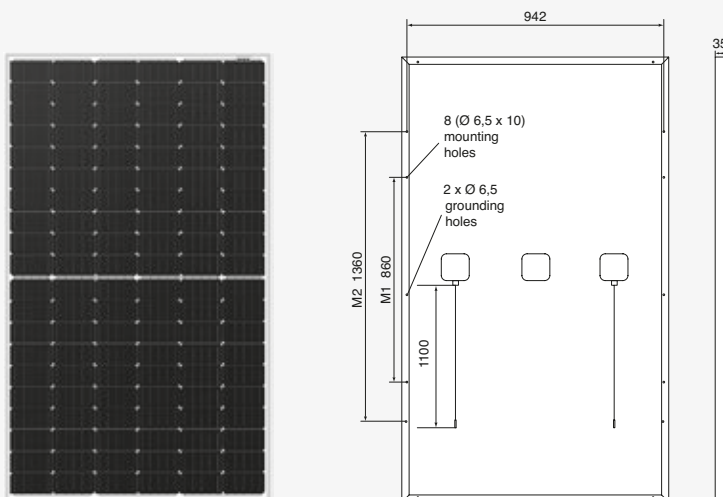
### Low-light performance

 (Example for AC-310MH/120S)

| I-U characteristic curve | Current I <sub>pp</sub> | Voltage U <sub>pp</sub> |
|--------------------------|-------------------------|-------------------------|
| 200 W/m <sup>2</sup>     | 1,90 A                  | 32,15 V                 |
| 400 W/m <sup>2</sup>     | 3,81 A                  | 32,39 V                 |
| 600 W/m <sup>2</sup>     | 5,68 A                  | 32,50 V                 |
| 800 W/m <sup>2</sup>     | 7,57 A                  | 32,68 V                 |
| 1000 W/m <sup>2</sup>    | 9,47 A                  | 32,74 V                 |

### Packaging

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



All dimensions in mm