



## 310 - 325 Wp

### AXIworldblackpremium HC

120 halfcell monocrystalline  
High performance solar module

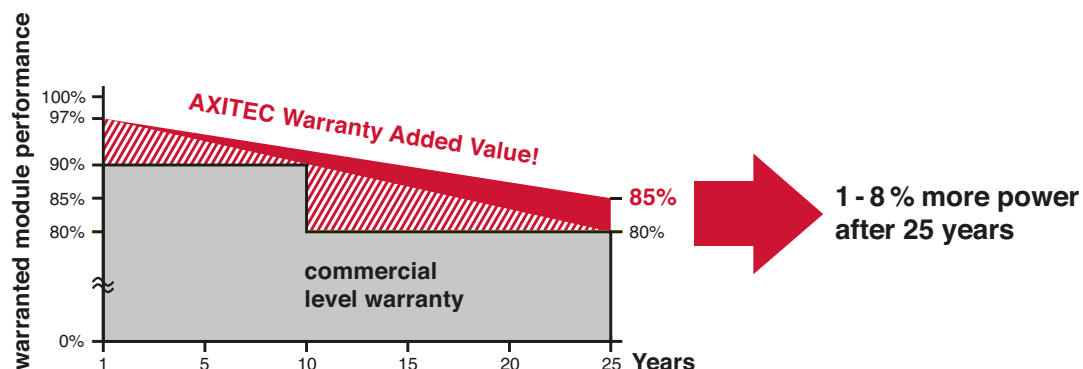
The advantages:

- 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 67** 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





# AXIworldblackpremium 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 P <sub>mpp</sub>	Nominal voltage U <sub>mpp</sub>	Nominal current I <sub>mpp</sub>	Short circuit current I <sub>sc</sub>	Open circuit voltage U <sub>oc</sub>	Module conversion efficiency
AC-310MH/120S	310 Wp	32,74 V	9,47 A	9,96 A	40,01 V	18,60 %
AC-315MH/120S	315 Wp	32,97 V	9,56 A	10,03 A	40,13 V	18,90 %
AC-320MH/120S	320 Wp	33,21 V	9,64 A	10,11 A	40,25 V	19,20 %
AC-325MH/120S	325 Wp	33,45 V	9,73 A	10,18 A	40,37 V	19,50 %

### Design

Frontside	3,2 mm hardened, low-reflection white glass
Cells	120 monocrystalline high efficiency cells
Backside	Composite film
Frame	35 mm black aluminium frame

### Mechanical data

L x W x H	1680 x 992 x 35 mm
Weight	19,1 kg with frame

### Power connection

Socket	Protection Class IP67
Wire	approx. 1,1 m, 4 mm <sup>2</sup>
Plug-in system	Plug/socket IP67

### 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	15,0 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)

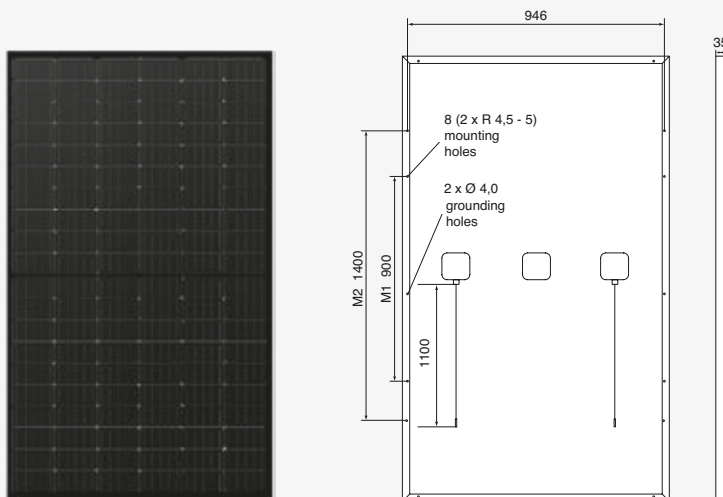
\* NOCT, irradiance 800 W/m<sup>2</sup>; AM 1,5; wind speed 1 m/s; Temperature 20°C

### 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



All dimensions in mm