



310 - 320 Wp

AXIblackpremium HC

120 halfcell monocrystalline
High performance solar module

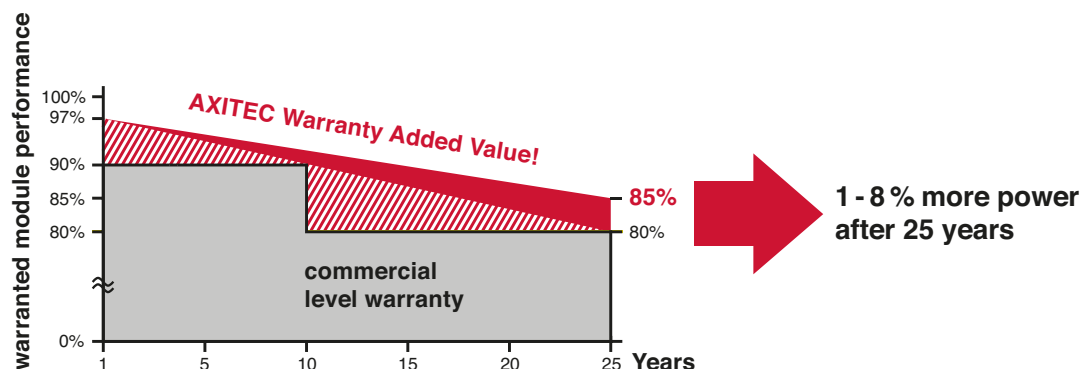
The advantages:

- 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



AXIblackpremium HC 310 - 320 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-310MH/120SB	310 Wp	32,74 V	9,47 A	9,96 A	40,01 V	18,66 %
AC-315MH/120SB	315 Wp	32,97 V	9,56 A	10,03 A	40,13 V	18,96 %
AC-320MH/120SB	320 Wp	33,21 V	9,64 A	10,11 A	40,25 V	19,26 %

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 black 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 IP67
Wire	approx. 1,1 m, 4 mm ²
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 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

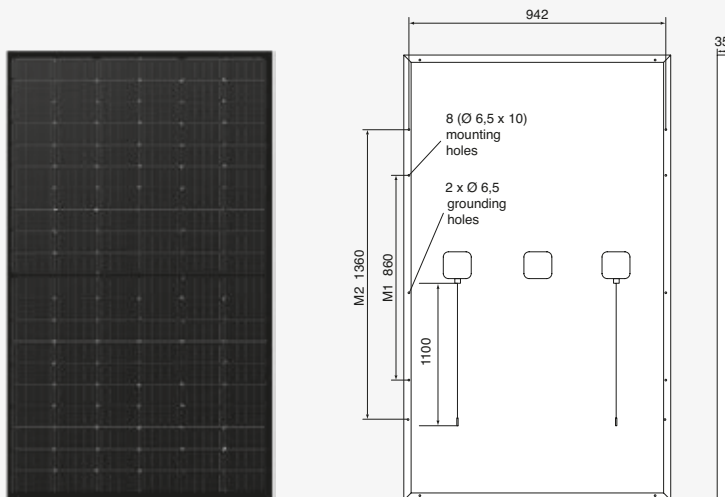
Low-light performance

 (Example for AC-310MH/120SB)

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

Packaging

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



All dimensions in mm