



280 - 295 Wp

AXIpower HC

120 halfcell polycrystalline
High performance solar module

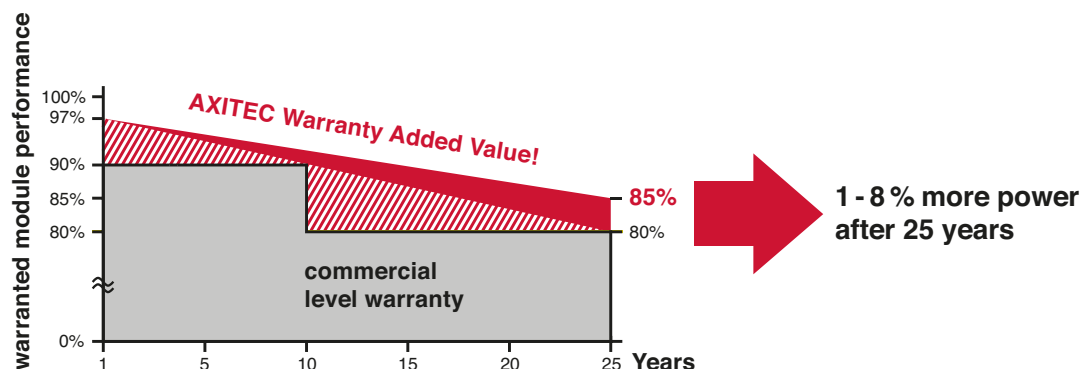
The advantages:

- 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



AXIpower HC 280 - 295 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-280PH/120S	280 Wp	31,67 V	8,85 A	9,33 A	38,69 V	16,85 %
AC-285PH/120S	285 Wp	31,87 V	8,96 A	9,42 A	38,88 V	17,15 %
AC-290PH/120S	290 Wp	32,06 V	9,05 A	9,51 A	39,07 V	17,45 %
AC-295PH/120S	295 Wp	32,23 V	9,16 A	9,62 A	39,27 V	17,75 %

Design

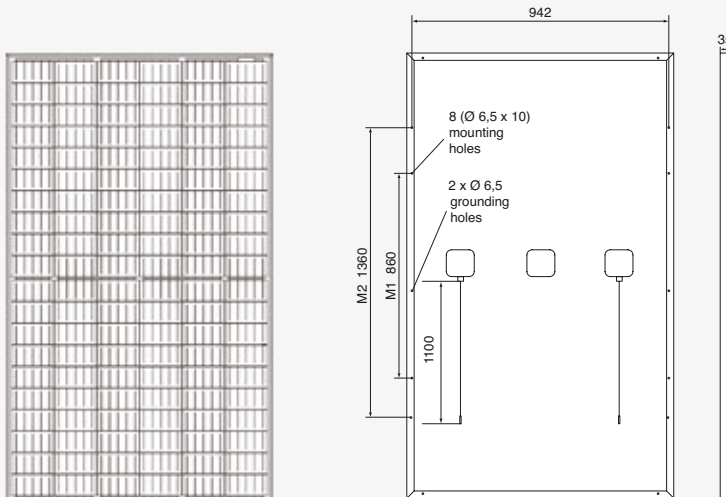
Frontside	3,2 mm hardened, low-reflection white glass
Cells	120 polycrystalline high efficiency cells
	156,75 mm x 78,38 mm
Backside	Composite film
Frame	35 mm silver aluminium frame

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 ²
Plug-in system	Plug/socket IP68



All dimensions in mm

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}	-0,30 %/K
Current I _{sc}	0,04 %/K
Output P _{mpp}	-0,40 %/K

Low-light performance

 (Example for AC-280PH/120S)

I-U characteristic curve	Current I _{pp}	Voltage U _{pp}
200 W/m ²	1,86 A	31,13 V
400 W/m ²	3,43 A	31,20 V
600 W/m ²	5,71 A	31,23 V
800 W/m ²	7,20 A	31,42 V
1000 W/m ²	8,85 A	31,67 V

Packaging

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