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Solar Panel Guide Specification Data Sheet

**AXITEC Energy GmbH & Co. KG
AXIpremium X HC 320-345MH/120S
AC-320MH/120S**

Also available on the web at
EnergyPal.com/axitec-energy-gmbh-co-kg-solar-panels/ac-320mh-120s



320 - 345 Wp

AXIpremium X HC

120 halfcell full-square monocrystalline
High performance solar module

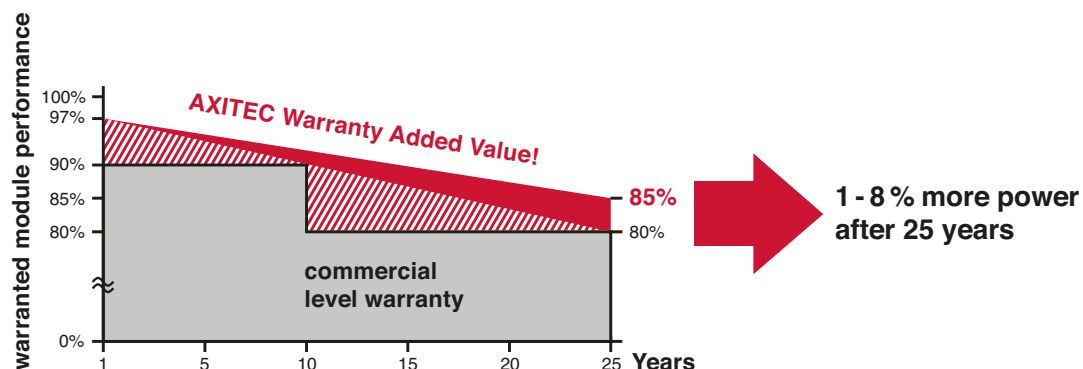
The advantages:

- 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
- 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 X HC 320 - 345 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-320MH/120S	320 Wp	33,21 V	9,64 A	10,11 A	40,25 V	18,96 %
AC-325MH/120S	325 Wp	33,45 V	9,73 A	10,18 A	40,37 V	19,26 %
AC-330MH/120S	330 Wp	33,74 V	9,79 A	10,25 A	40,49 V	19,56 %
AC-335MH/120S	335 Wp	33,98 V	9,87 A	10,31 A	40,65 V	19,85 %
AC-340MH/120S	340 Wp	34,19 V	9,96 A	10,39 A	40,82 V	20,15 %
AC-345MH/120S	345 Wp	34,45 V	10,02 A	10,47 A	40,98 V	20,45 %

Design

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

Mechanical data

L x W x H	1684 x 1002 x 35 mm
Weight	19,0 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

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

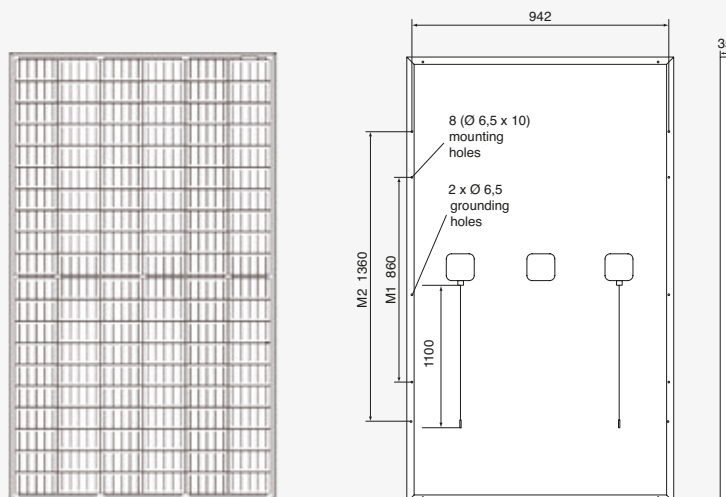
Low-light performance

 (Example for AC-320MH/120S)

I-U characteristic curve	Current I _{pp}	Voltage U _{pp}
200 W/m ²	2,02 A	32,47 V
400 W/m ²	4,32 A	32,71 V
600 W/m ²	6,17 A	33,50 V
800 W/m ²	7,99 A	33,68 V
1000 W/m ²	9,79 A	33,74 V

Packaging

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



All dimensions in mm