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Solar Panel Guide Specification Data Sheet

**AXITEC Energy GmbH & Co. KG
AXIpremium X HC 385-415MH/144S
AC-415MH/144S**

Also available on the web at
EnergyPal.com/axitec-energy-gmbh-co-kg-solar-panels/ac-415mh-144s



385 - 415 Wp

25
YEARS
85%



AXIpremium X HC

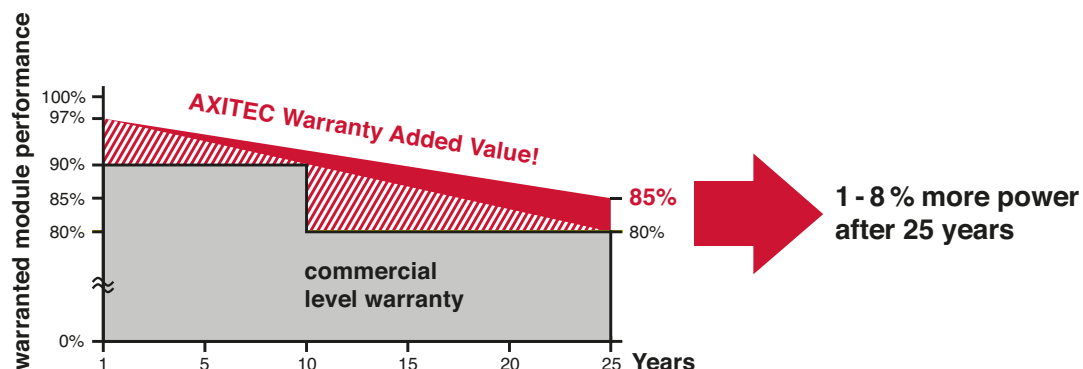
144 halfcell full-square monocrystalline
High performance solar module

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
- 2.400 Pa** Maximum 2400 Pa snow load
- 100%** 100% electroluminescence inspection
- 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 385 - 415 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-385MH/144S	385 Wp	40,24 V	9,58 A	10,10 A	48,11 V	19,14 %
AC-390MH/144S	390 Wp	40,50 V	9,64 A	10,21 A	48,30 V	19,38 %
AC-395MH/144S	395 Wp	40,80 V	9,69 A	10,33 A	48,52 V	19,63 %
AC-400MH/144S	400 Wp	41,12 V	9,74 A	10,46 A	48,81 V	19,88 %
AC-405MH/144S	405 Wp	41,43 V	9,79 A	10,59 A	49,50 V	20,13 %
AC-410MH/144S	410 Wp	41,75 V	9,83 A	10,72 A	49,79 V	20,38 %
AC-415MH/144S	415 Wp	41,98 V	9,89 A	10,84 A	50,08 V	20,63 %

Design

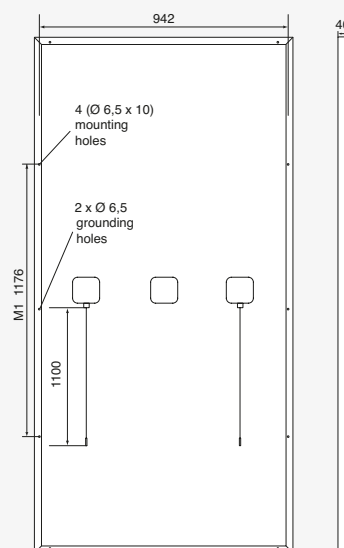
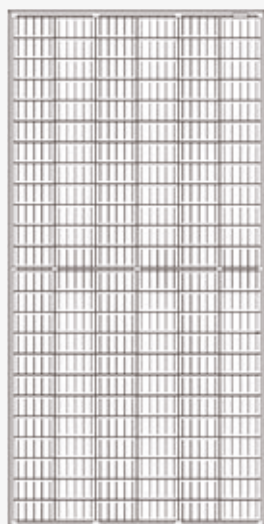
Frontside	3,2 mm hardened, low-reflection white glass
Cells	144 monocrystalline high efficiency cells
Backside	Composite film
Frame	40 mm silver aluminium frame

Mechanical data

L x W x H	2008 x 1002 x 40 mm
Weight	23,0 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



All dimensions in mm

Limit values

System voltage	1000 VDC
NOCT (nominal operating cell temperature)*	45°C +/-2K
Max. load-carrying capacity	2400 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-400MH/144S)

I-U characteristic curve	Current I _{pp}	Voltage U _{pp}
200 W/m ²	1,98 A	37,40 V
400 W/m ²	4,27 A	38,04 V
600 W/m ²	6,12 A	40,88 V
800 W/m ²	7,94 A	41,06 V
1000 W/m ²	9,74 A	41,12 V

Packaging

Module pieces per pallet	25
Module pieces per HC-container	550