



525 - 545 Wp

**AXITEC**  
high quality german solar brand

## AXIpremium XXL HC

High performance solar module  
144 halfcell, monocrystalline

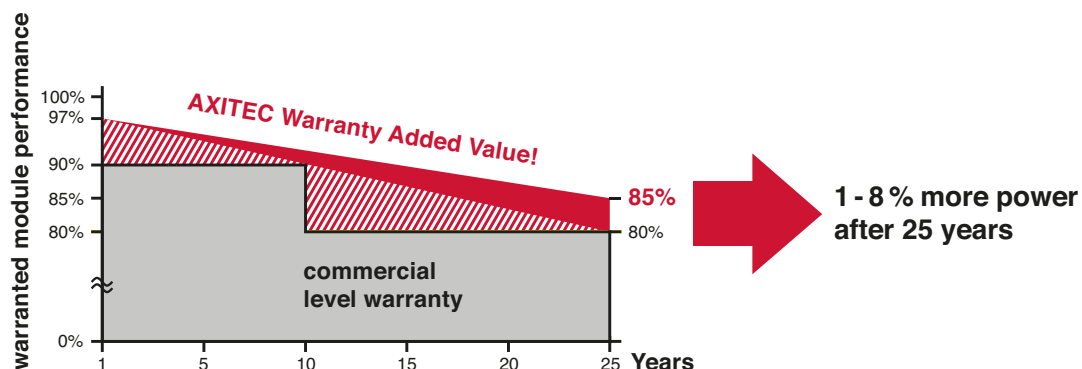
The advantages:

-  15 years manufacturer's warranty
-  Highest module performance through Half-Cut-technology and tested materials
-  Guaranteed positive power tolerance from 0-5 Wp by individual measurement
-  Maximum 2400 Pa snow load
-  100% electroluminescence inspection
-  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 XXL HC 525 - 545 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-525MH/144V	525 Wp	41,25 V	12,73 A	13,66 A	49,10 V	20,31 %
AC-530MH/144V	530 Wp	41,40 V	12,81 A	13,73 A	49,25 V	20,51 %
AC-535MH/144V	535 Wp	41,55 V	12,88 A	13,79 A	49,40 V	20,70 %
AC-540MH/144V	540 Wp	41,70 V	12,95 A	13,85 A	49,55 V	20,89 %
AC-545MH/144V	545 Wp	41,85 V	13,03 A	13,91 A	49,70 V	21,09 %

### Design

Frontside	3,2 mm hardened, low-reflection white glass
Cells	144 monocrystalline high efficiency cells
Backside	Composite film
Frame	35 mm silver aluminium frame

### Mechanical data

L x W x H	2279 x 1134 x 35 mm
Weight	28,5 kg with frame

### Power connection

Socket	Protection Class IP68
Wire	approx. 1,3 m, 4 mm <sup>2</sup>
Plug-in system	Plug/socket IP68, Stäubli EVO2 / EVO2 pluggable

### Limit values

System voltage	1500 VDC
NOCT (nominal operating cell temperature)*	45°C +/-2K
Max. load-carrying capacity	2400 N/m <sup>2</sup>
Reverse current feed IR	25,0 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

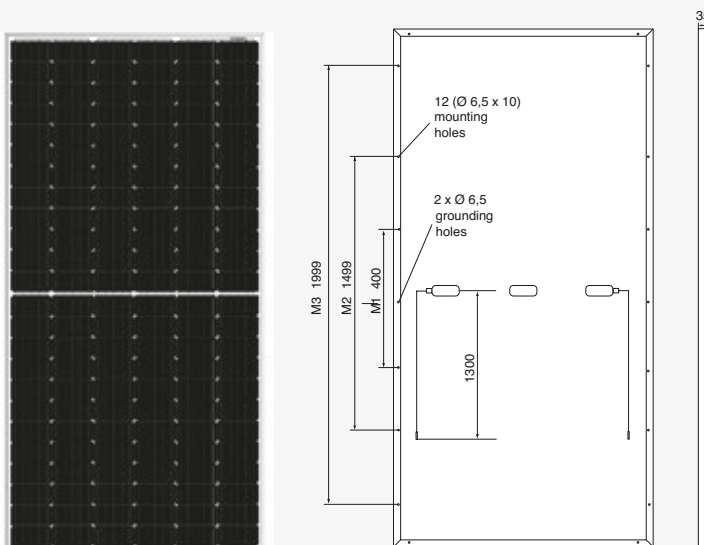
Voltage U <sub>oc</sub>	-0,28 %/K
Current I <sub>sc</sub>	0,045 %/K
Output P <sub>mpp</sub>	-0,35 %/K

### Low-light performance (Example for AC-545MH/144V)

I-U characteristic curve	Current I <sub>pp</sub>	Voltage U <sub>pp</sub>
200 W/m <sup>2</sup>	2,66 A	40,28 V
400 W/m <sup>2</sup>	5,37 A	40,74 V
600 W/m <sup>2</sup>	8,03 A	41,06 V
800 W/m <sup>2</sup>	10,61 A	41,41 V
1000 W/m <sup>2</sup>	13,03 A	41,85 V

### Packaging

Module pieces per pallet	30
Module pieces per HC-container	600



All dimensions in mm