









525 - 545 Wp

## AXIpremium XXL HC

High performance solar module  
144 halfcell, monocrystalline

The advantages:

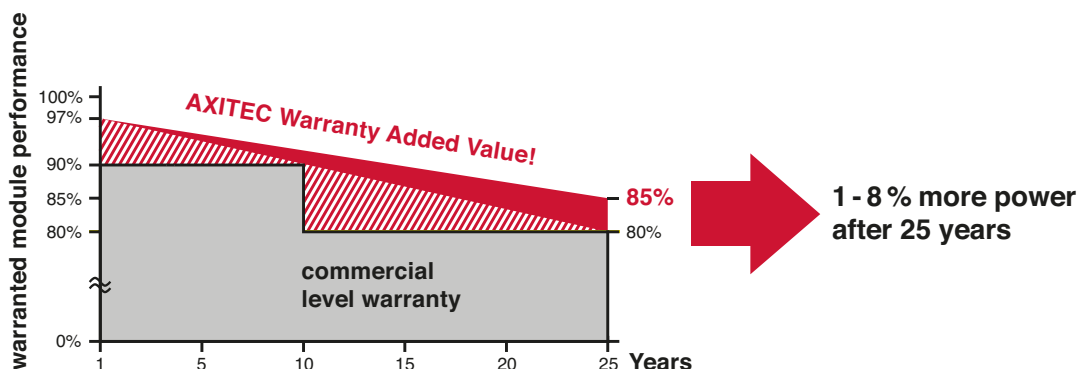
-  15 years Manufacturer's warranty
-  High module performance through Half-Cut-technology and selected materials
-  Guaranteed positive power tolerance from 0-5 Wp by individual measurement
-  100% visual electroluminescence inspection in production
-  High stability due to innovative frame design
-  High quality junction box and connector systems

**25**  
YEARS  
**85%**



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	20.32 %
AC-530MH/144V	530 Wp	41.40 V	12.81 A	13.73 A	49.25 V	20.52 %
AC-535MH/144V	535 Wp	41.55 V	12.88 A	13.79 A	49.40 V	20.71 %
AC-540MH/144V	540 Wp	41.70 V	12.95 A	13.85 A	49.55 V	20.90 %
AC-545MH/144V	545 Wp	41.85 V	13.03 A	13.91 A	49.70 V	21.10 %

### 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	2278 x 1134 x 35 mm
Weight	28.5 kg with frame

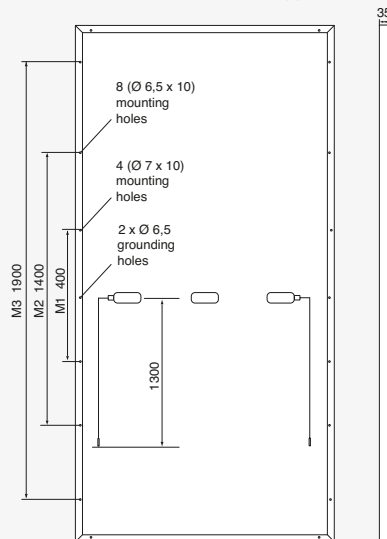
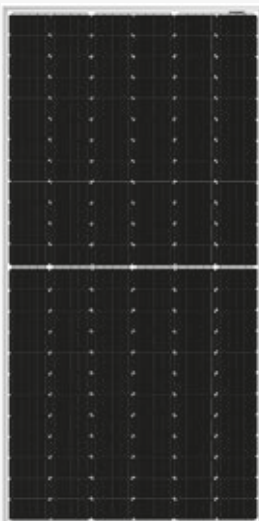
### Mechanical load

Design load (pressure/suction)	1600 Pa / 1600 Pa *
Test load (pressure/suction)	2400 Pa / 2400 Pa *

\* depending on the type of installation according to the installation instructions

### 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



All dimensions in mm

### Limit values

System voltage	1500 VDC
NOCT (nominal operating cell temperature)*	45°C +/-2K
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>mp</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	31
Module pieces per HC-container	620