








AXIpremium XXL HC

525 - 545 Wp

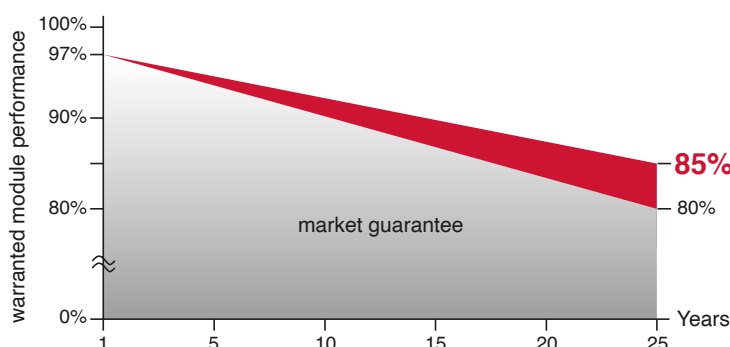
High performance solar module
144 halfcell, monocrystalline

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 Manufacturer's guarantee



Exclusive linear AXITEC high performance guarantee!



85% AXITEC Warranty Added Value:
up to 5% more power after 25 years

AXIpremium XXL HC 525 - 545 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-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)	3600 Pa / 1600 Pa *
Test load (pressure/suction)	5400 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 ²
Plug-in system	Plug/socket IP68, Stäubli EVO2 / EVO2 pluggable

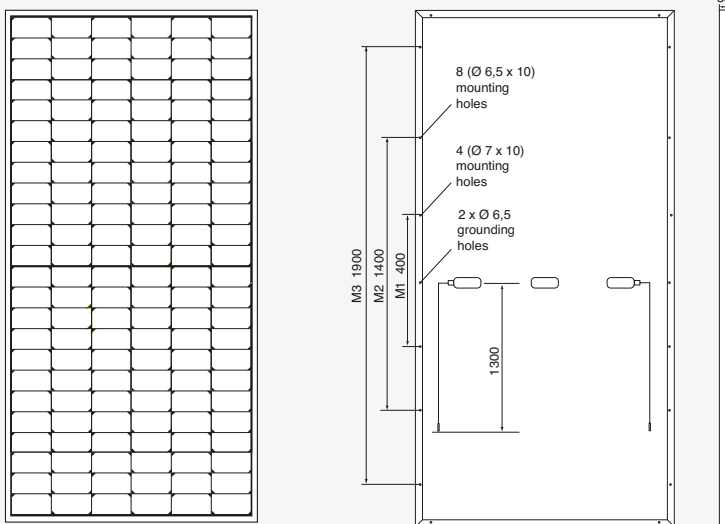


Fig. principle sketch

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
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(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}	-0.28 %/K
Current I _{sc}	0.045 %/K
Output P _{mp}	-0.35 %/K

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

I-U characteristic curve	Current I _{pp}	Voltage U _{pp}
200 W/m ²	2.66 A	40.28 V
400 W/m ²	5.37 A	40.74 V
600 W/m ²	8.03 A	41.06 V
800 W/m ²	10.61 A	41.41 V
1000 W/m ²	13.03 A	41.85 V

Packaging

Module pieces per pallet	31
Module pieces per HC-container	620

