



525 - 545 Wp

AXITEC
high quality german solar brand

AXIpremium XXL HC

High performance solar module
144 halfcell, monocrystalline

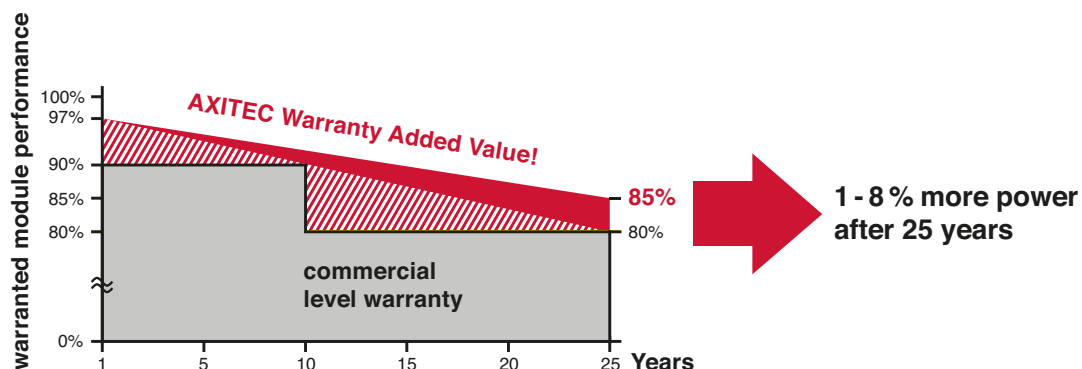
The advantages:

- 15** Years 15 years Manufacturer's warranty
- HC** High module performance through Half-Cut-technology and selected materials
- Wp** Guaranteed positive power tolerance from 0-5 Wp by individual measurement
- 100%** 100% visual electroluminescence inspection in production
- Frame** High stability due to innovative frame design
- 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 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	20.31 %
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

Mechanical load

Design load (pressure/suction)	3600 Pa / 1600 Pa
Test load (pressure/suction)	5400 Pa / 2400 Pa

Power connection

Socket	Protection Class IP68
Wire	approx. 1.3 m, 4 mm ²
Plug-in system	Plug/socket IP68, Stäubli EVO2 / EVO2 pluggable

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_{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

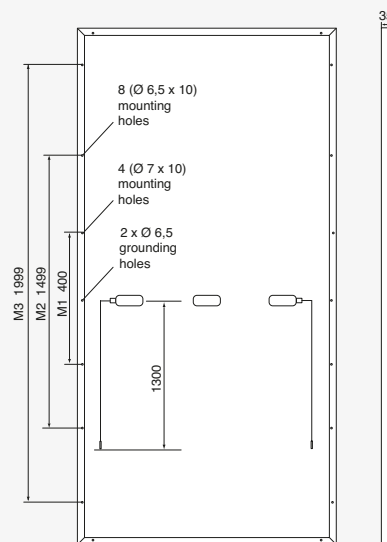
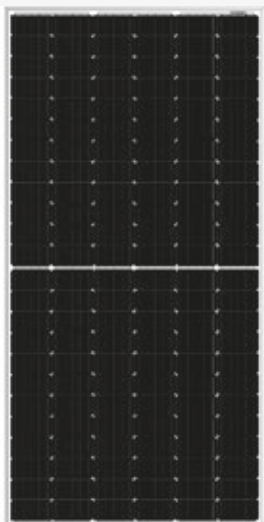
Voltage U _{oc}	-0.28 %/K
Current I _{sc}	0.045 %/K
Output P _{mpp}	-0.35 %/K

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	30
Module pieces per HC-container	600



All dimensions in mm