

430 - 460 Wp

-AXITEC

AXIpremium XL 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



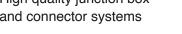
100% visual electroluminescence inspection in production



High stability due to innovative frame design



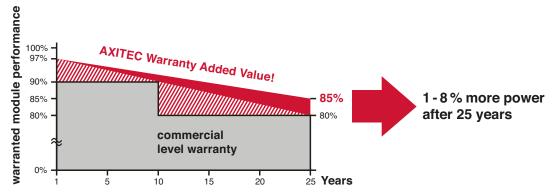
High quality junction box and connector systems



85% GERMAN BRAND

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 XL HC 430 - 460 Wp



Electrical data (at standard conditions (STC) irradiance 1000 watt/m², spectrum AM 1.5 at a cell temperature of 25°C)

Туре	Nominal output Pmpp	Nominal voltage Umpp	Nominal current Impp	Short circuit current Isc	Open circuit voltage Uoc	Module conversion efficiency
AC-430MH/144V	430 Wp	40.59 V	10.60 A	11.21 A	49.22 V	19.78 %
AC-435MH/144V	435 Wp	40.79 V	10.67 A	11.28 A	49.42 V	20.01 %
AC-440MH/144V	440 Wp	40.99 V	10.74 A	11.35 A	49.62 V	20.24 %
AC-445MH/144V	445 Wp	41.19 V	10.81 A	11.41 A	49.86 V	20.47 %
AC-450MH/144V	450 Wp	41.39 V	10.88 A	11.48 A	50.10 V	20.70 %
AC-455MH/144V	455 Wp	41.61 V	10.94 A	11.54 A	50.34 V	20.93 %
AC-460MH/144V	460 Wp	42.00 V	10.96 A	11.65 A	50.40 V	21.16 %

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 2094 x 1038 x 35 mm Weight 23.8 kg with frame

Mechanical load

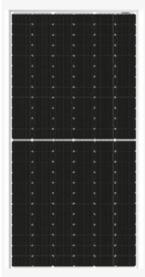
Design load (pressure/suction) 3600 Pa / 1600 Pa *
Test load (pressure/suction) 5400 Pa / 2400 Pa *

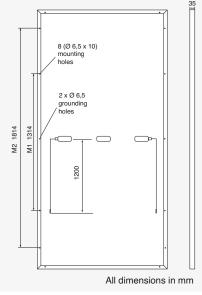
 * depending on the type of installation according to the installation instructions

Power connection

Socket Protection Class IP68
Wire approx. 1.2 m, 4 mm²

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 20.0 A

Permissible operating

temperature -40°C to 85°C / -40F to 185F

(No external voltages greater than Uoc 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 Uoc
 -0.27 %/K

 Current Isc
 0.048 %/K

 Output Pmpp
 -0.35 %/K

Low-light performance (Example for AC-460MH/144V)

I-U characteristic curve	Current Ipp	Voltage Upp
200 W/m ²	2.24 A	40.42 V
400 W/m ²	4.52 A	40.89 V
600 W/m ²	6.75 A	41.21 V
800 W/m ²	8.93 A	41.56 V
1000 W/m ²	10.96 A	42.00 V

Packaging

Module pieces per pallet 30
Module pieces per HC-container 660