

440 - 465 Wp

-A-XITEC

high quality german solar brand

AXIpremium XL HC

High performance solar module 144 halfcell, monocrystalline



German-Australian-Engineering

The advantages:

15 Years

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

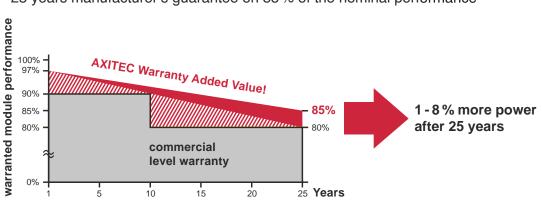


High quality junction box and connector systems

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





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144MHEN210302A



AXIpremium XL HC 440 - 455 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 (± 3 %)	Nominal voltage Umpp (± 2 %)	Nominal current Impp (± 2 %)	Short circuit current Isc (± 2 %)	Open circuit voltage Uoc (± 2 %)	Module conversion efficiency
AC-440MH/144VAU	440 Wp	41.20 V	10.68 A	11.40 A	49.00 V	20.24 %
AC-445MH/144VAU	445 Wp	41.40 V	10.75 A	11.45 A	49.10 V	20.47 %
AC-450MH/144VAU	450 Wp	41.60 V	10.82 A	11.52 A	49.40 V	20.70 %
AC-455MH/144VAU	455 Wp	41.80 V	10.89 A	11.58 A	49.60 V	20.93 %
AC-460MH/144VAU	460 Wp	42.00 V	10.96 A	11.65 A	49.80 V	21.16 %
AC-465MH/144VAU	465 Wp	42.10 V	11.05 A	11.74 A	49.90 V	21.39 %

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 23.5 kg with frame

Mechanical load

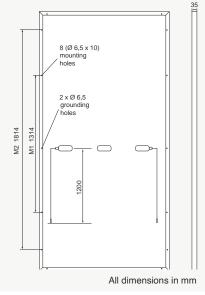
Design load (pressure/suction) 3600 Pa / 1600 Pa Test load (pressure/suction) 5400 Pa / 2400 Pa

Power connection

Socket Protection Class IP68
Wire approx. 1.2 m, 4 mm²
Plug-in system Plug/socket IP68,

Stäubli MC4 PV-KST4-EVO 2 / PV-KBT4-EVO 2





Limit values

System voltage 1500 VDC

Module Fire Performance CLASS C

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-465MH/144VAU)

I-U characteristic curve	Current Ipp	Voltage Upp
200 W/m ²	2.26 A	40.52 V
400 W/m ²	4.56 A	40.98 V
600 W/m ²	6.81 A	41.30 V
800 W/m ²	9.00 A	41.66 V
1000 W/m ²	11.05 A	42.10 V

Packaging

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

country of origin:

made in People's Republic of China