

440 - 450 Wp



AXIworldpremium XL HC

High performance solar module 144 halfcell, monocrystalline

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



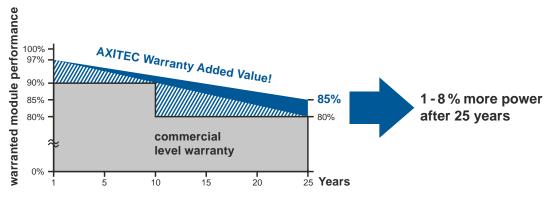
High quality junction box and connector systems



144MHEN210802E-26/2

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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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 lsc	Open circuit voltage Uoc	Module conversion efficiency
AC-440MH/144V	440 Wp	40.99 V	10.74 A	11.35 A	49.62V	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 %

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

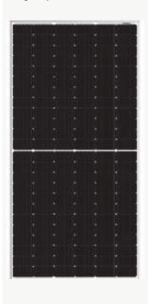
Mechanical load

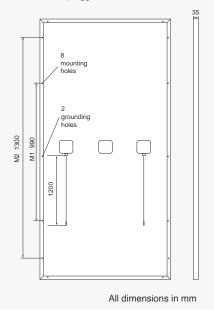
Design load (pressure/suction) 1600 Pa / 1600 Pa Test load (pressure/suction) 2400 Pa / 2400 Pa

Power connection

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

Plug-in system Plug/socket IP68, 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-450MH/144V)

Current Ipp	Voltage Upp
2.22 A	39.83 V
4.49 A	40.29 V
6.70 A	40.61 V
8.86 A	40.96 V
10.88 A	40.39 V
	2.22 A 4.49 A 6.70 A 8.86 A