

-AXITEC

650 - 670 Wp

AXIbipremium XQ HC MW

High performance bifacial solar module 132 halfcell, monocrystalline

The advantages:



15 years Manufacturer's warranty



Up to 25 % more power output by Bifacial-Technology



Guaranteed positive power tolerance from 0-5 Wp by individual measurement



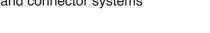
100% visual electroluminescence inspection in production



High stability due to innovative frame design

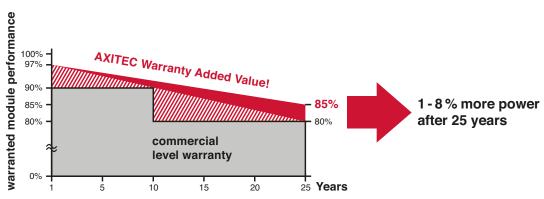


High quality junction box and connector systems



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





132MBTEN220324A



AXIbipremium XQ HC MW 650 - 670 Wp

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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	AC-650MBT/132V	AC-655MBT/132V	AC-660MBT/132V	AC-665MBT/132V	AC-670MBT/132V
Nominal output	650 Wp	655 Wp	660 Wp	665 Wp	670 Wp
Nominal voltage Umpp	37.40 V	37.60 V	37.80 V	38.00 V	38.20 V
Nominal current Impp	17.38 A	17.43 A	17.47 A	17.50 A	17.55 A
Short circuit current Isc	18.45 A	18.50 A	18.55 A	18.60 A	18.62 A
Open circuit voltag Uoc	45.20 V	45.40 V	45.60 V	45.80 V	46.10 V
Module conversion efficiency	20.93 %	21.10 %	21.26 %	21.41 %	21.58 %

Bifacial output - Backside Power gain

10% Power output	715.00 Wp	720.50 Wp	726.00 Wp	731.50 Wp	737.00 Wp	
Module Effiency	23.02 %	23.19 %	23.37 %	23.55 %	23.73 %	
15% Power output	747.50 Wp	753.25 Wp	759.00 Wp	764.75 Wp	770.50 Wp	
Module Effiency	24.06 %	24.25 %	24.43 %	24.62 %	24.80 %	
20% Power output	780.00 Wp	786.00 Wp	792.00 Wp	798.00 Wp	804.00 Wp	
Module Effiency	25.11 %	25.30 %	25.50 %	25.69 %	25.88 %	
25% Power output	812.50 Wp	818.75 Wp	825.00 Wp	831.25 Wp	837.50 Wp	
Module Effiency	26.16 %	26.36 %	26.56 %	26.76 %	26.96 %	

Design

Frontside 3.2 mm hardened, low-reflection white glass

Backside Composite film, cell gaps white

Cells 132 bifacial-monocrystalline high efficiency cells

Frame 35 mm silver aluminium frame

Mechanical data

L x W x H 2384 x 1303 x 35 mm Weight 34,0 kg with frame

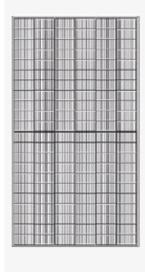
Mechanical load

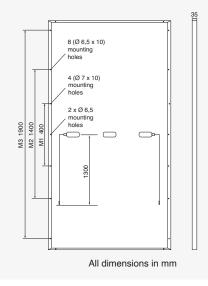
Design load (pressure/suction) 1600 Pa / 1600 Pa * Test load (pressure/suction) 2400 Pa / 2400 Pa *

Power connection

Socket Protection Class IP68
Wire approx. 1.3 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 30.0 A

Permissible operating

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

Bifaciality $70\% \pm 10\%$

(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
 -0.28 %/K

 Current Isc
 0.045 %/K

 Output Pmpp
 -0.34 %/K

Low-light performance without Bifacial-effect

(Example for AC-670MBT/132V)

I-U characteristic curve	Current Ipp	Voltage U
200 W/m ²	3.59 A	36.76 V
400 W/m ²	7.24 A	37.19 V
600 W/m ²	10.81 A	37.48 V
800 W/m ²	14.29 A	37.80 V
1000 W/m ²	17.55 A	38.20 V

Packaging

Module pieces per pallet 31
Module pieces per HC-container 527

^{*} depending on the type of installation according to the installation instructions