

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



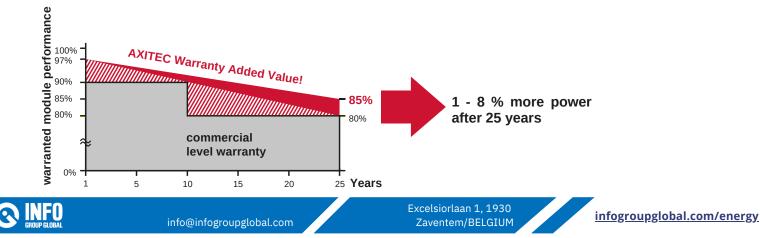
High stability due to innovative frame design



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







AXIbipremium XQ HC MW 650 - 670 Wp

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 10% Power output	gain 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 Backside Cells Frame 3.2 mm hardened, low-reflection white glassComposite film, cell gaps white132 bifacial-monocrystalline high efficiency cells35 mm silver aluminium frame

Mechanical data

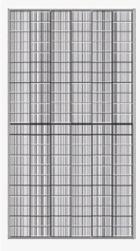
L x W x H Weight 2384 x 1303 x 35 mm 34,0 kg with frame

Mechanical load

Design load (pressure/suction) 1600 Pa / 1600 Pa * Test load (pressure/suction) 2400 Pa / 2400 Pa * * depending on the type of installation according to the installation instructions

Power connection

Socket Wire Plug-in system Protection Class IP68 approx. 1.3 m, 4 mm2 Plug/socket IP68, Stäubli EVO2 / EVO2 pluggable



All dimensions in mm

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	7	70 % ± 2	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 curveCurrent IppVoltage Upp

200 W/m² 3.59 A 36.76 V 400 W/m² 7.24 A 37.19 V 600 W/m² 10.81 A 37.48 V 800 W/m² 14.29 A 37.80 V 1000 W/m² 17.55 A 38.20 V

Packaging

N

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

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