

AXIbipremium XQ HC MT 650 - 670 Wp

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



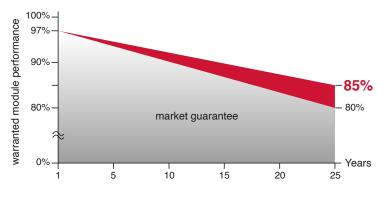
High quality junction box and connector systems



25 years Manufacturer's guarantee



Exclusive linear AXITEC high performance guarantee!



AXITEC Warranty Added Value: up to 5% more power after 25 years

ig. similar 132MBTEN220816A



AXIbipremium XQ HC MT 650 - 670 Wp

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 transparent

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

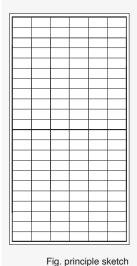
Mechanical load

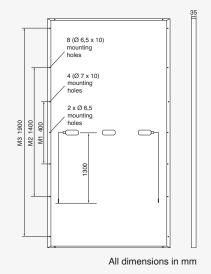
Design load (pressure/suction) 1600 Pa / 1600 Pa * Test load (pressure/suction) 2400 Pa / 2400 Pa *

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 Up
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