

# AXIbiperfect GQ TS 550 Wp

High performance bifacial solar module 120 halfcell, glass/glass, N-Type TOPCon



**German-Australian-Engineering** 

# The advantages:



30 years Manufacturer's warranty and Performance guarantee



Up to 30 % more power output by Bifacial-Technology



More performance through innovative N-Type TOPCon-Technology



PID reduced through glass/glass-Technology



Increased safety through improved fire protection



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

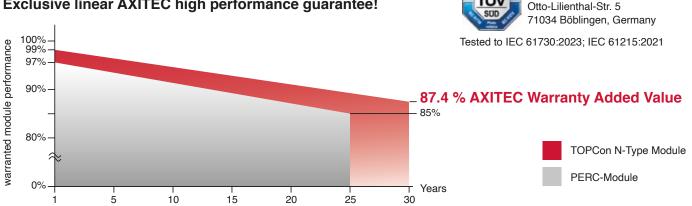


Lisence holder:

AXITEC Energy GmbH & Co. KG

120TGBLAUS240909/

# **Exclusive linear AXITEC high performance guarantee!**





# AXIbiperfect GQ TS 550 Wp

#### **Electrical data**

at standard conditions (STC): irradiance 1000 W/m<sup>2</sup>. spectrum AM 1.5 at a cell temperature of 25°C

Туре	AC-550TGB/120TSA		
Nominal output	550 Wp		
Nominal voltage Umpp	36,42 V		
Nominal current Impp	15,10 A		
Short circuit current Isc	15,96 A		
Open circuit voltag Uoc	43,61 V		
Module conversion efficiency	22,33 %		

at BNPI test conditions: irradiance frontside 1000 W/m², backside 135 W/m², with spectrum AM 1,5 at a cell temperature of 25°C

Nominal output Pmpp	606 Wp		
Short circuit current Isc	17,60 A		
Open circuit voltag Uoc	43,61 V		

Bifacial coefficients: φUoc 0,98±5%; φIsc 0,80±10%; φPmpp 0,80±10%

#### with 5 % bifacial gain:

/			
Nominal output Pmpp	577 Wp		
Nominal voltage Umpp	36.42 V		
Nominal current Impp	15.86 A		
Short circuit current Isc	16.76 A		
Open circuit voltag Uoc	43.61 V		

<sup>\*</sup>The bifacial gain is the additional gain from the back side of PV. It depends on the mounting method, orientation, tilt angle of the PV module and the albedo of the ground.

#### Design

Frontside 2.0 mm low-reflection white glass
Backside 2.0 mm glass, cell spaces transparent

Cells 120 N-Type TOPCon bifacial high efficiency cells

Frame 30 mm silver aluminium frame

## Mechanical data

L x W x H 2172 x 1134 x 30 mm Weight 30.6 kg with frame

### Mechanical load

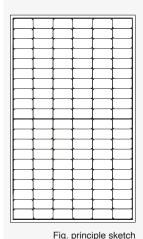
Design load (pressure/suction) 3600 Pa / 1600 Pa \* Test load (pressure/suction) 5400 Pa / 2400 Pa \*

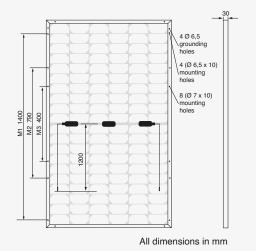
#### **Power connection**

Socket Protection Class IP68, 3 bypass diodes

Wire approx. 1.2 m, 4 mm<sup>2</sup>

Plug-in system IP68, PV-KST4-EVO2A/xy,PV-KBT4-EVO2A/xy





#### **Limit values**

System voltage 1500 VDC

NOCT (nominal operating cell temperature)\* 45°C +/-2°C

Max Series Fuse Current 30.0 A

Permissible operating temp. -40°C to 85°C / -40F to 185F Fire class / Protection class C (UL790) / II

(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
 -0.26 %/°C

 Current Isc
 0.046 %/°C

 Output Pmpp
 -0.31 %/°C

# Low-light performance without Bifacial-effect

(Example for AC-550TGB/120STA)

I-U characteristic curve	Current Ipp	Voltage Upp
200 W/m <sup>2</sup>	3.08 A	35.06 V
400 W/m <sup>2</sup>	6.23 A	35.46 V
600 W/m <sup>2</sup>	9.30 A	35.74 V
800 W/m <sup>2</sup>	12.30 A	36.05 V
1000 W/m <sup>2</sup>	15 10 A	36 42 V

## Packaging

Module pieces per pallet 36
Module pieces per HC-container 720

country of origin:

made in People's Republic of China



 $<sup>^{\</sup>star}$  depending on the type of installation according to the installation instructions