


AXIbiperfect GXXL TS

560 - 580 Wp

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

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



Exclusive linear AXITEC high performance guarantee!

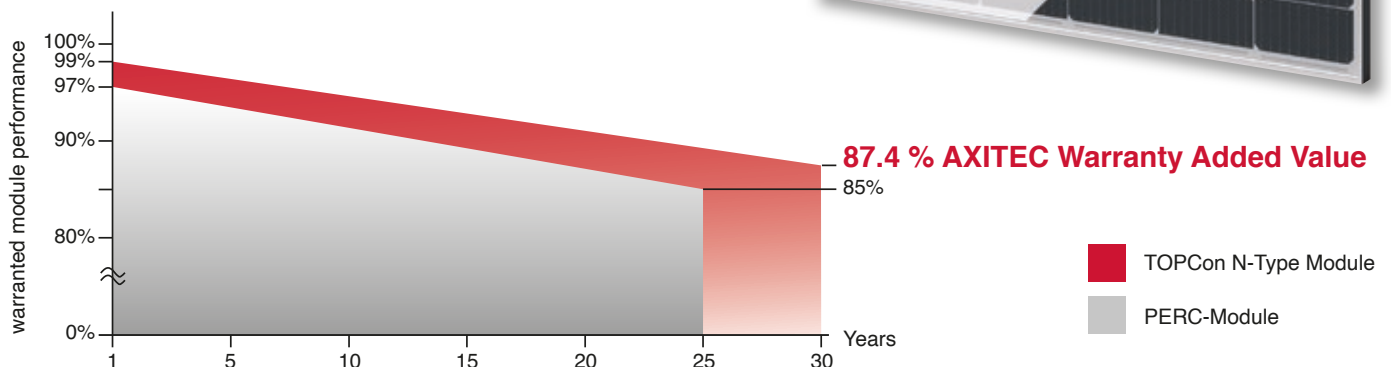


Fig. similar 144TGBEN240214A

AXIbiperfect GXXL TS 560 - 580 Wp

Electrical data (at standard conditions (STC) irradiance 1000 watt/m², spectrum AM 1.5 at a cell temperature of 25°C)

| Type | AC-560TGB/144TS | AC-565TGB/144TS | AC-570TGB/144TS | AC-575TGB/144TS | AC-580TGB/144TS |
|---------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Nominal output | 560 Wp | 565 Wp | 570 Wp | 575 Wp | 580 Wp |
| Nominal voltage U _{mpp} | 42.40 V | 42.60 V | 42.80 V | 43.00 V | 43.20 V |
| Nominal current I _{mpp} | 13.21 A | 13.27 A | 13.32 A | 13.38 A | 13.43 A |
| Short circuit current I _{sc} | 13.97 A | 14.03 A | 14.08 A | 14.14 A | 14.18 A |
| Open circuit voltag U _{oc} | 50.60 V | 50.80 V | 51.00 V | 51.20 V | 51.40 V |
| Module conversion efficiency | 21.68 % | 21.87 % | 22.07 % | 22.26 % | 22.45 % |

Bifacial output - Backside Power gain

| | | | | | |
|-------------------|-----------|-----------|-----------|-----------|-----------|
| 10% Power output | 616.00 Wp | 621.50 Wp | 627.00 Wp | 632.50 Wp | 638.00 Wp |
| Module Efficiency | 23.85 % | 24.06 % | 24.27 % | 24.48 % | 24.70 % |
| 20% Power output | 672.00 Wp | 678.00 Wp | 684.00 Wp | 690.00 Wp | 696.00 Wp |
| Module Efficiency | 26.01 % | 26.25 % | 26.48 % | 26.71 % | 26.94 % |
| 30% Power output | 728.00 Wp | 734.50 Wp | 741.00 Wp | 747.50 Wp | 754.00 Wp |
| Module Efficiency | 28.18 % | 28.43 % | 28.68 % | 28.94 % | 29.19 % |

Design

| | |
|-----------|--|
| Frontside | 2.0 mm low-reflection white glass |
| Backside | 2.0 mm glass, cell spaces transparent |
| Cells | 144 N-Type TOPCon bifacial high efficiency cells |
| Frame | 30 mm silver aluminium frame |

Mechanical data

| | |
|-----------|---------------------|
| L x W x H | 2278 x 1134 x 30 mm |
| Weight | 31.2 kg with frame |

Mechanical load

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

* depending on the type of installation according to the installation instructions

Power connection

| | |
|----------------|--|
| Socket | Protection Class IP68, 3 bypass diodes |
| Wire | approx. 1.3 m, 4 mm ² |
| Plug-in system | IP68, MC4-EVO 2, MC4-EVO 2A, JM608 |

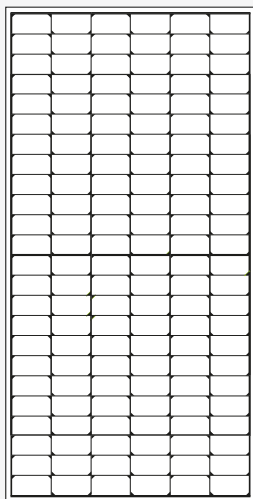
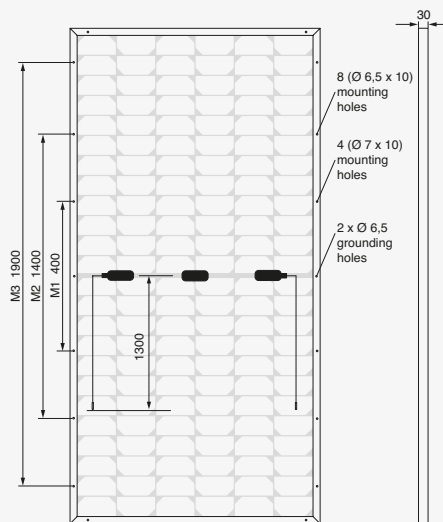


Fig. principle sketch



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 | 80 % ± 5 % |
| Fire class / Protection class | C (UL790) / II |

(No external voltages greater than U_{oc} 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 U _{oc} | -0.26 %/K |
| Current I _{sc} | 0.046 %/K |
| Output P _{mp} | -0.31 %/K |

Low-light performance (Example for AC-580TGB/144TS)

| I-U characteristic curve | Current I _{pp} | Voltage U _{pp} |
|--------------------------|-------------------------|-------------------------|
| 200 W/m ² | 2.74 A | 41.58 V |
| 400 W/m ² | 5.54 A | 42.06 V |
| 600 W/m ² | 8.27 A | 42.38 V |
| 800 W/m ² | 10.94 A | 42.75 V |
| 1000 W/m ² | 13.43 A | 43.20 V |

Packaging

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

