

AXIperfect FXXL WS

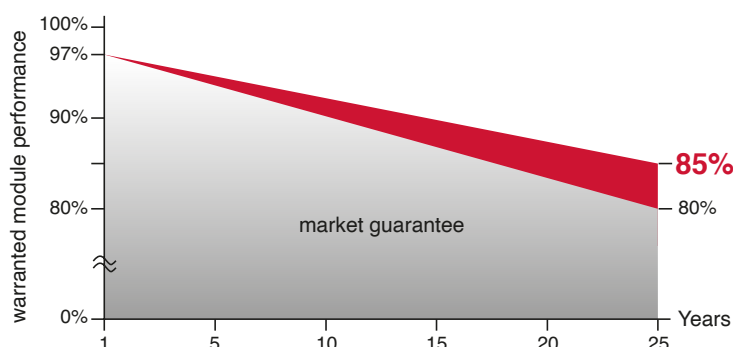
550 - 570 Wp

High performance solar module
144 halfcell, N-Type TOPCon

The advantages:

- 15 Years** 15 years Manufacturer's warranty
- HC** High module performance through Half-Cut-technology and selected materials
- + Wp** Guaranteed positive power tolerance from 0-5 Wp by individual measurement
- 100%** 100% visual electroluminescence inspection in production
- Frame** High stability due to innovative frame design
- IP 68** High quality junction box and connector systems
- TOP** More performance through innovative N-Type TOPCon-Technology
- 25 Years** 25 years Performance guarantee

Exclusive linear AXITEC high performance guarantee!



85% AXITEC Warranty Added Value:
up to 5% more power after 25 years



AXIperfect FXXL WS 550 - 570 Wp

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

Type	Nominal output P _{mpp}	Nominal voltage U _{mpp}	Nominal current I _{mpp}	Short circuit current I _{sc}	Open circuit voltage U _{oc}	Module conversion efficiency
AC-550TFM/144WS	550 Wp	41.51 V	13.26 A	13.99 A	50.21 V	21.29 %
AC-555TFM/144WS	555 Wp	41.64 V	13.33 A	14.07 A	50.34 V	21.48 %
AC-560TFM/144WS	560 Wp	41.77 V	13.41 A	14.15 A	50.47 V	21.68 %
AC-565TFM/144WS	565 Wp	41.92 V	13.48 A	14.23 A	50.60 V	21.87 %
AC-570TFM/144WS	570 Wp	42.01 V	13.55 A	14.31 A	50.74 V	22.07 %

Design

Frontside	3.2 mm hardened, low-reflection white glass
Cells	144 N-Type TOPCon high efficiency cells
Backside	Composite film
Frame	30 mm silver aluminium frame

Mechanical data

L x W x H	2278 x 1134 x 35 mm
Weight	28.5 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
Wire	approx. 1.3 m, 4 mm ²
Plug-in system	Plug/socket IP68, Stäubli EVO2 / EVO2 pluggable

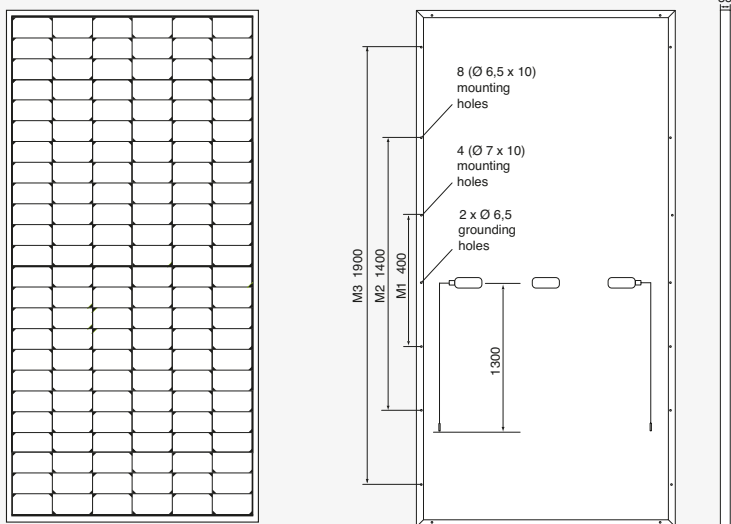


Fig. principle sketch

All dimensions in mm

Limit values

System voltage	1500 VDC
NOCT (nominal operating cell temperature)*	45°C +/-2K
Reverse current feed IR	25.0 A

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

(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 _{mpp}	-0.31 %/K

Low-light performance (Example for AC-570TFM/144WS)

I-U characteristic curve	Current I _{pp}	Voltage U _{pp}
200 W/m ²	2.77 A	40.43 V
400 W/m ²	5.59 A	40.90 V
600 W/m ²	8.35 A	41.22 V
800 W/m ²	11.04 A	41.57 V
1000 W/m ²	13.55 A	42.01 V

Packaging

Module pieces per pallet	31
Module pieces per HC-container	620

