









AXIperfect FXXL WS

550 - 570 Wp

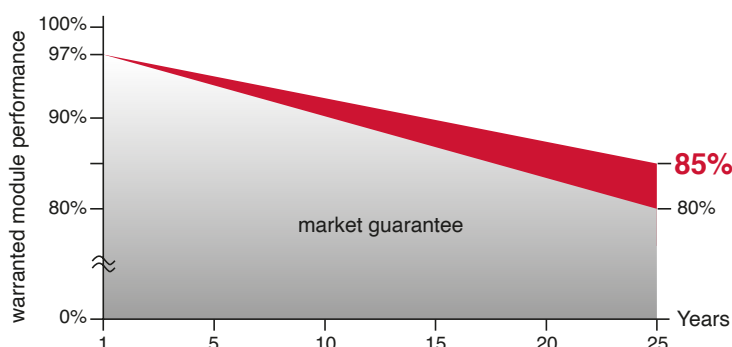
High performance solar module
144 halfcell, N-Type TOPCon

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 |

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 / -40F to 185F

(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 |

