

**EXPERTS IN ENERGY,**  
POWERED WITH PASSION

**ELAT**  
SOLAR

## ELAT-FB-GG-430

The next generation **double glass** solar panel with outstanding performance.

**430 W**

220 W/m<sup>2</sup>

Optimal performance and extended service life  
with **TOPCon technology**.

**Full black monocrystalline** solar panels:  
stylish, efficient and less reflection.

Up to 25% higher yield due to  
**bifacial power generation**.

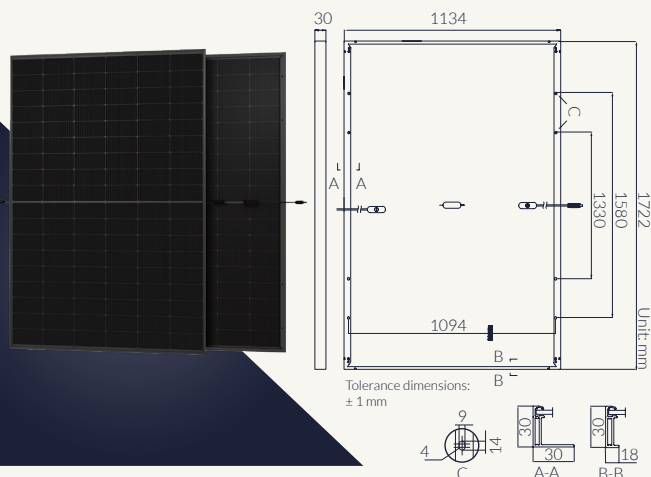
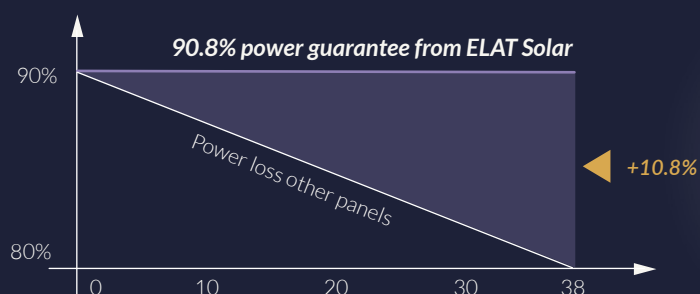
**38**  
year

manufacturer's  
warranty

**38**  
year

90.8% power  
guarantee

## 38 year 90.8% power guarantee



### Mechanical Parameters

Cell type	182 x 91 mm N Type Mono
Cell technology	TOPCon
No. of cells	108 (6x18)
Junction Box	IP67/IP68, 3 diodes
Output cable	4 mm <sup>2</sup> , 1100 mm
Connector	MC4
Front glass	2.0 mm AR coating tempered glass
Back glass	2.0 mm glazed glass
Frame	Anodized aluminium alloy frame
Weight	24.70 kg
Dimensions	1722 x 1134 x 30 mm
Packaging	37 pcs per pallet / 222 pcs per 20 FT container / 962 pcs per 40 HQ container

### Electrical Characteristics STC: AM 1.5 1000 W / m<sup>2</sup> 25°C

Module type	ELAT-FB-GG-430
Maximum power (P <sub>max</sub> / W)	430
Open circuit voltage (V <sub>oc</sub> / V)	38.49
Short circuit current (I <sub>sc</sub> / A)	14.23
Voltage at maximum power (V <sub>mp</sub> / V)	31.88
Current at maximum power (I <sub>mp</sub> / A)	13.49
Module efficiency (%)	22.02

### Certificates



### Operating Parameters

Operational temperature	-40°C ~ +85°C
Power output tolerance	0 ~ +5 W
V <sub>oc</sub> - and I <sub>sc</sub> -tolerance	± 3%
Maximum system voltage (V)	1500 V
Maximum series fuse rating	30 A
Nominal Operating Cell Temperature (NOCT)	45 ± 2°C
Protection class	Class II
Fire rating	UL 1703, Class C

### Mechanical Loading

Front side maximum static loading	5400 Pa
Rear side maximum static loading	2400 Pa
Hailstone test	25 mm hailstone at speed 23 m/s

### Temperature Ratings (STC)

Temperatuur Coëfficiënt van I <sub>sc</sub> (A / °C)	+ 0.046 % / °C
Temperatuur Coëfficiënt van V <sub>oc</sub> (V / °C)	- 0.250 % / °C
Temperatuur Coëfficiënt van P <sub>max</sub> (W / °C)	- 0.300 % / °C

### Parameter of double-sided power generation (430 W)

P <sub>max</sub> gain	P <sub>max</sub> / W	V <sub>mp</sub> / V	I <sub>mp</sub> / A	V <sub>oc</sub> / V	I <sub>sc</sub> / A
5%	452.00	31.88	14.18	38.49 ± 3%	14.94 ± 3%
15%	495.00	31.88	15.53	38.49 ± 3%	16.33 ± 3%
25%	538.00	31.88	16.88	38.49 ± 3%	17.75 ± 3%

Certificates are available on request. ELAT Solar's solar cells and solar modules are both manufactured by Bloomberg Tier 1-listed suppliers.

Research, design and development in the ELAT region.