

**EXPERTS IN ENERGY,**  
POWERED WITH PASSION

**ELAT**  
SOLAR

**lumis** series

**ELAT-FB-SG-435**

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

**435 W**

223 W/m<sup>2</sup>

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

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

**Sophisticated and modern** design,  
suitable for almost any roof.

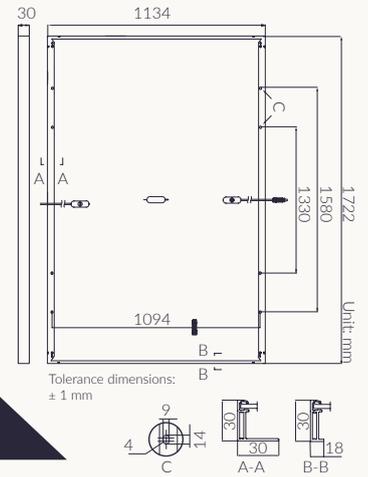
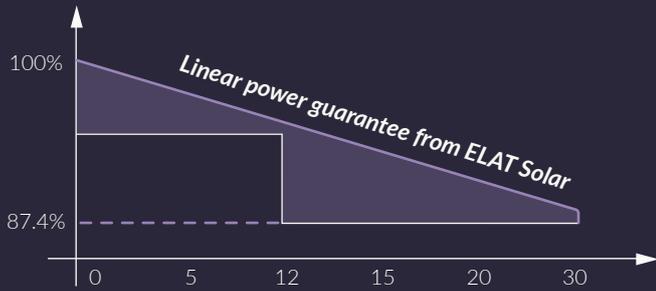
**25**  
year

manufacturer's  
warranty

**30**  
year

linear power  
guarantee

## 30 year linear 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> , 1200 mm
Connector	MC4-EVO2
Glass	Single glass, 3.2 mm coated tempered glass
Frame	Anodized aluminium alloy frame
Weight	21.50kg
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-SG-435
Maximum power (P <sub>max</sub> / W)	435
Open circuit voltage (V <sub>oc</sub> / V)	38,47
Short circuit current (I <sub>sc</sub> / A)	14,31
Voltage at maximum power (V <sub>mp</sub> / V)	32,06
Current at maximum power (I <sub>mp</sub> / A)	13,57
Module efficiency (%)	22,28

### Certificates



• IEC61215 • IEC61730

### 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	25 A
Nominal Operating Cell Temperature (NOCT)	45 ± 2°C
Protection class	Class II
Fire rating	UL 1703, Class A

### 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)

Temperature Coefficient of I <sub>sc</sub> (A / °C)	+ 0,047 % / °C
Temperature Coefficient of V <sub>oc</sub> (V / °C)	- 0,260 % / °C
Temperature Coefficient of P <sub>max</sub> (W / °C)	- 0,300 % / °C

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.   