

**EXPERTS IN ENERGY,**  
POWERED WITH PASSION

**ELAT**  
SOLAR

COSMIC series

## ELAT-N-IBC-425

The next generation double glass  
**interdigitated back contact** solar panel.

**425 W**

216 W/m<sup>2</sup>

Maximum yield and peak  
performance with **IBC technology**.

**A temperature coefficient panel** that performs  
well under various temperature conditions.

Protection against Potential Induced Degradation (PID) thanks to  
**double glass**: extended lifespan and increased reliability.

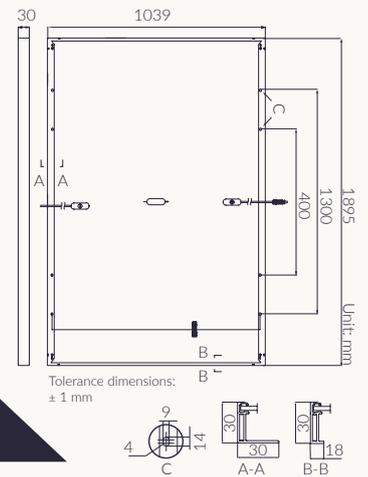
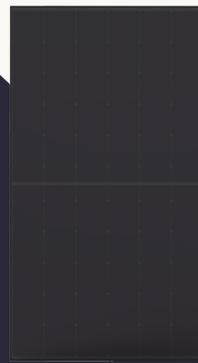
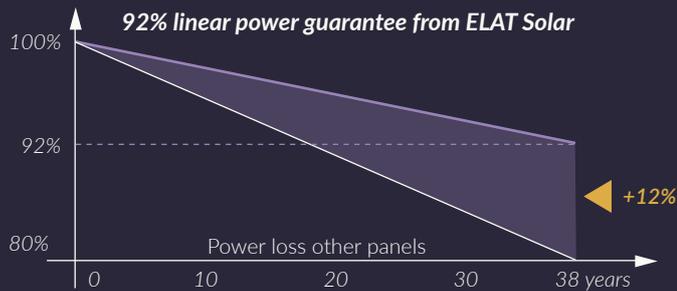
**38**  
year

manufacturer's  
warranty

**38**  
year

linear power  
guarantee

## 38 year linear power guarantee



## Mechanical Parameters

Cell type	166 x 83 mm N Type IBC
Cell technology	IBC
No. of cells	132 (6x22)
Junction Box	IP68, 3 diodes
Output cable	4 mm <sup>2</sup> , 1200 mm
Connector	MC4-EVO2
Front Glass	2.0 mm 'AR coating' tempered glass
Back Glass	2.0 mm glazed glass
Frame	Anodized aluminium alloy frame
Weight	26.0 kg
Dimensions	1895x1039x30 mm
Packaging	75 pcs per stack / 900 pcs per 40 HQ container

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

Module type	ELAT-N-IBC-425
Maximum power (P <sub>max</sub> / W)	425
Open circuit voltage (V <sub>oc</sub> / V)	46,00
Short circuit current (I <sub>sc</sub> / A)	11,76
Voltage at maximum power (V <sub>mp</sub> / V)	39,00
Current at maximum power (I <sub>mp</sub> / A)	10,90
Module efficiency (%)	21,60

## 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	20 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)	+ 0.046 % / °C
Temperature Coefficient of V <sub>oc</sub> (V / °C)	- 0.246 % / °C
Temperature Coefficient of P <sub>max</sub> (W / °C)	- 0.290 % / °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.   