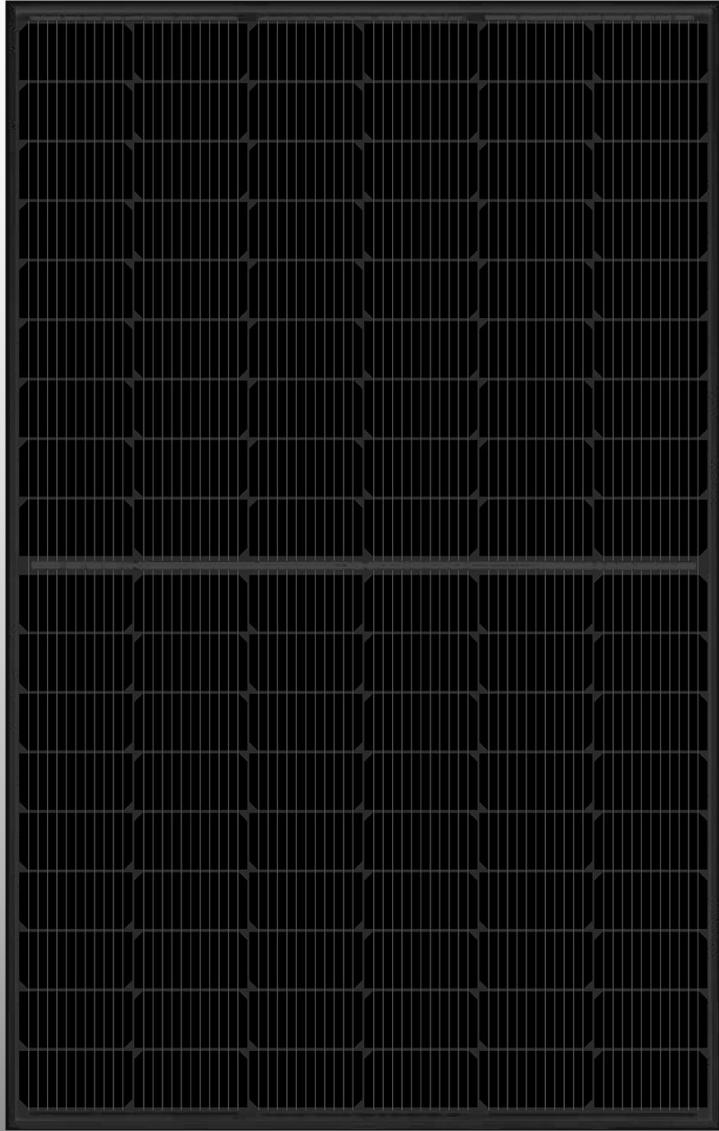


# N-TOPCon Cell 108 Half-Cell Layout



**435W**

Max Power output

**22.28%**

Max Panel Efficiency

**Zero LID**

can increase power generation

**0 ~ +5W**

Power Output Tolerance

## Advantages

### High Power Output

- Better light trapping and current collection to improve module power output and reliability

### Outstanding Low Light Performance

- Higher power output even under low-light environments like on cloudy or foggy days

### Zero LID (Light Induced Degradation)

- N-type solar cell has no LID naturally which can increase power generation

### Withstanding Harsh Environment

- Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline

### Better Temperature Coefficient

- Higher power generation under working conditions, thanks to passivating contact cell technology

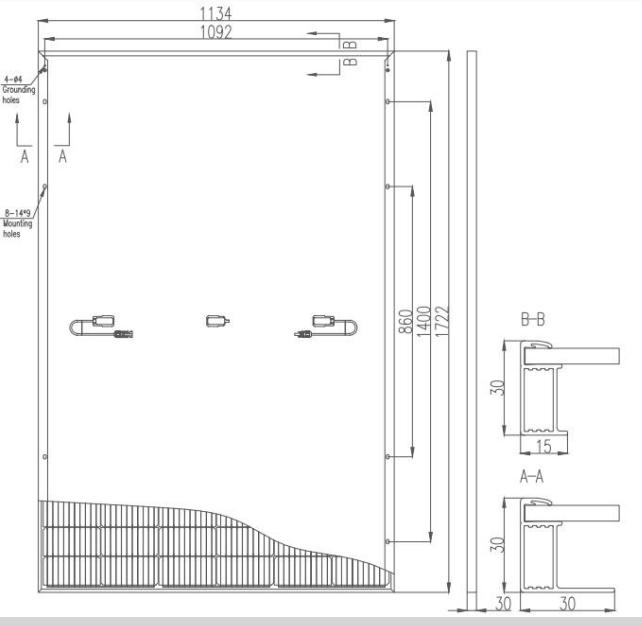
### PID Resistance

- Excellent Anti-PID performance guarantee via optimized mass-production process and materials control

**TOPCon**

# UP-N410-430MB

Maximum power of the TOPCon series : 700W



## Mechanical Characteristics

Number of cells	108pcs
Size of cell(mm)	182*91
Type of cell	N-type Mono
Thickness of glass(mm)	3.2
Type of frame	Anodized aluminum alloy
Junction box	IP68
Size of module( mm)	1722*1134*30
Weight(kg)	20.2
Cables/ connectors	4mm <sup>2</sup> , MC4 compatible
Length of Cabel	Portrait : +300mm/-300mm

# TOPCon

## Electrical Characteristics

Power level	410	415	420	425	430
Pmax( W )	410	415	420	425	430
Vmp( V )	31.14	31.33	31.51	31.70	31.88
Imp( A )	13.17	13.25	13.33	13.41	13.49
Voc( V )	37.70	37.89	38.08	38.26	38.44
Isc( A )	13.92	14.00	14.08	14.16	14.24
Module efficiency( % )	20.99	21.25	21.50	21.76	22.02
Maximum system voltage( V )			1500		
Fuse Rating( A )			25		
Temperature coeff. client Pmax( % / °C )			-0.30		
Temperature coeff. client Isc ( % / °C )			0.046		
Temperature coeff. client Voc ( % / °C )			-0.25		
STC:Irradiance 1000W/m <sup>2</sup> ,module temperature 25°C, AM=1.5					

## Working Characteristics

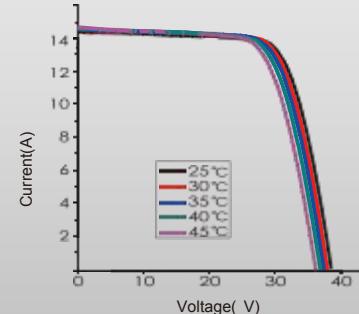
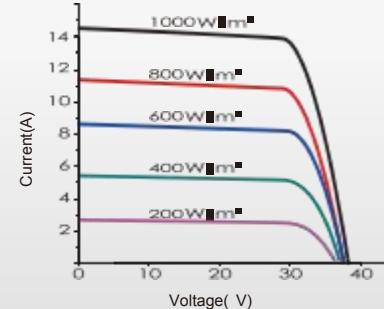
Power level	410	415	420	425	430
Pmax( W )	308	312	316	320	323
Vmp( V )	29.03	29.22	29.37	29.55	29.61
Imp( A )	10.61	10.68	10.76	10.83	10.91
Voc( V )	35.81	36.00	36.17	36.35	36.53
Isc( A )	11.24	11.30	11.37	11.43	11.50
Power tolerance( % )			0~+3		
NOCT( °C )			4.4±2		

NOCT:Conditions:Irradiance 800W/m<sup>2</sup>,ambient temperature 20°C, wind speed 1m/s

## Maximum Ratings

Operating Temperature(°C)	-40~85
Operating humidity( °C )	5~85
Allowable Hail Load	25mm ice-ball with velocity of 23m/s

## I-V Curv



## Packing Configuration

Pieces per pallet	36
Size of packing (mm)	1750*1135*1255
Weight of packing (kg)	772
Pieces per container	936
Size of container	40'HC

