

# Aurora Pro

## N-Type

S8-108GANT 435~445W

Bifacial Dual Glass

Mono Module



### 445W

Maximum Power Output

### 22.27%

Maximum Module Efficiency

### 0~+5W

Power Output Tolerance

IEC61215, IEC61730  
 ISO9001:2015: Quality Management System  
 ISO14001:2015: Environment Management System  
 ISO45001:2018: Occupational health and safety management systems



#### 10%-30% Additional Power Generation

- 30 years lifespan brings 10-30% additional power generation comparing with conventional P-type module



#### 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



#### 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



#### Enhanced Mechanical Load

- Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal)



#### Lower LCOE

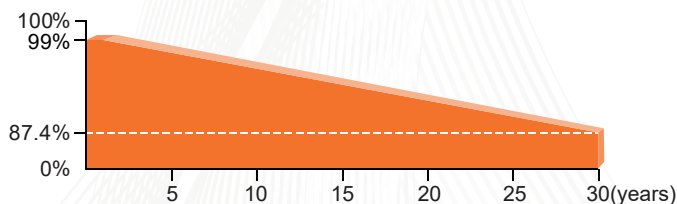
- Higher bifaciality, higher power output and lower BOS cost



#### Wider Applicability

- More application scenes like BIPV, vertical installation, snowfield, high-humid, windy and dusty area

#### Linear Performance Warranty



12 Years Product Warranty on Materials and Workmanship

30 Years Linear Performance Warranty

0.40% Subsequent Annual Degradation

# Aurora Pro

## RS435~445S8-108GANT

### Electrical Properties(STC\*)

Power Output(Wp)	435	440	445
Max Power Tolerance(W)	0-5	0-5	0-5
Module Efficiency(%)	21.77	22.02	22.27
Voltage Mpp-Vmpp(V)	32.46	32.67	32.87
Current Mpp-Impp(A)	13.40	13.47	13.54
Voltage Open Circuit-Voc(V)	39.13	39.33	39.53
Short Circuit Current-Isc(A)	14.01	14.08	14.15

\*STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, AM 1.5

### Electrical Properties(NOCT\*)

Power Output(Wp)	327	331	335
Voltage Mpp-Vmpp(V)	30.19	30.42	30.62
Current Mpp-Impp(A)	10.83	10.88	10.94
Voltage Open Circuit-Voc(V)	37.17	37.36	37.55
Short Circuit Current-Isc(A)	11.31	11.36	11.42

\*NOCT: Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s

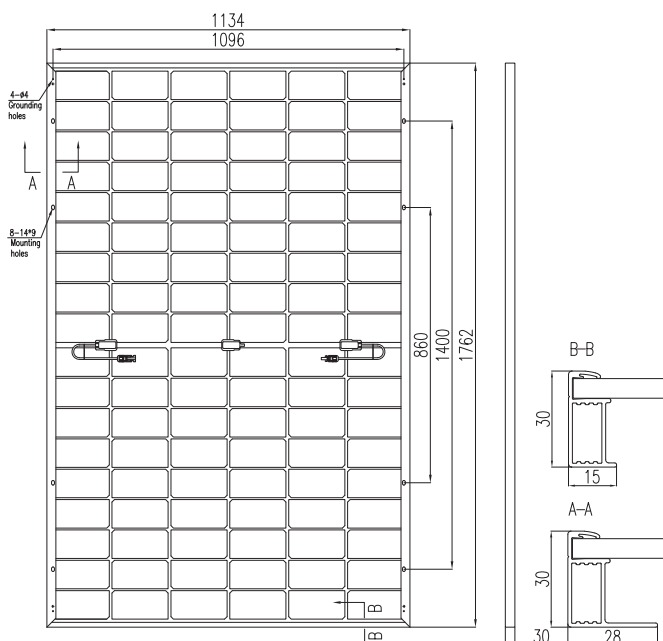
### With Different Power Generation Gain (regarding 440W as an example)

Power Gain (%)	Power Output (Wp)	Voltage Mpp-Vmpp (V)	Current Mpp-Impp (A)	Voltage Open Circuit-Voc (V)	Short Circuit Current-Isc (A)
10	484	32.67	14.82	39.33	15.49
15	506	32.67	15.49	39.33	16.16
20	528	32.67	16.16	39.33	16.90
25	550	32.67	16.84	39.33	17.60
30	572	32.67	17.51	39.33	18.30

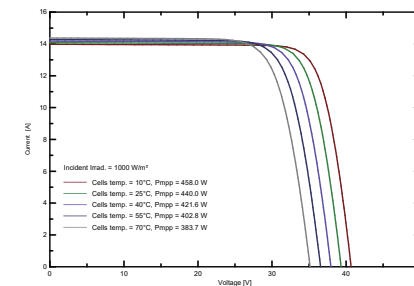
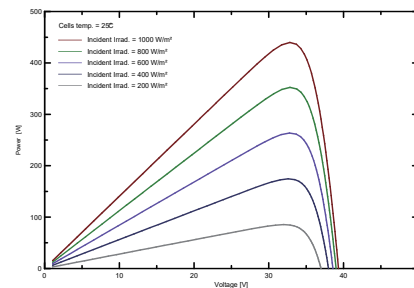
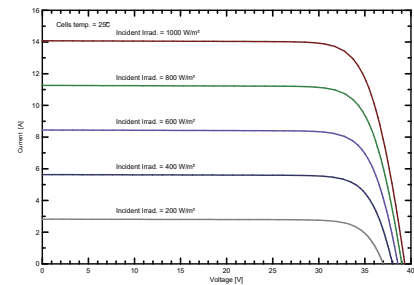
### Packaging Configuration

Packing Type	40'HQ
Piece/Pallet	36
Piece/Container	936

### Engineering Drawing (mm)



### Characteristic Curves(440W)



### Mechanical Properties

Number of Cells	108 [ 2 x ( 9 x 6 ) ]
Module Dimension	1762*1134*30mm
Weight	24kg
Front Glass	2.0mm, Anti-Reflection Coating
Rear Glass	2.0mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 (3 diodes)
Cable Length	TUV 1x4.0mm <sup>2</sup> , (+):300mm/ (-):200mm or Customized length

### Operating Properties

Operating Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	30A
Power Tolerance	0~+5W
Bifaciality	80±5%

### Temperature Coefficient

Temperature Coefficient of Pmax	-0.310%/°C
Temperature Coefficient of Voc	-0.26%/°C
Temperature Coefficient of Isc	0.046%/°C
Nominal Operating Cell Temperature (NOCT)	42±2°C