

## S8-108GANT

**N-type  
Bifacial Dual Glass  
Mono Module**



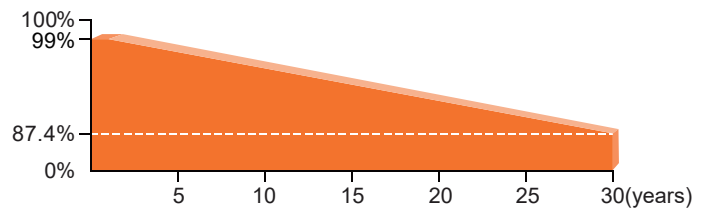
**425 - 450W** / Power Output

**0~5W** / Pmax Tolerance

**23.04%** / Maximum Module Efficiency

-  **Outstanding Low Light Performance**  
Higher power output even under low-light environments like on cloudy or foggy days.
-  **Better Temperature Coefficient**  
Higher power generation under working conditions, thanks to passivating contact cell technology
-  **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
-  **10%-30% Additional Power Generation**  
30 years lifespan brings 10%-30% additional power generation comparing with conventional P-type module
-  **Zero LID (Light Induced Degradation)**  
N-type solar cell has no LID naturally which can increase power generation
-  **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)

### Linear Performance Warranty



**15** years  
Product quality & process guarantee

**30** years  
Linear power guarantee

**0.40** %  
Annual degradation

### Product Certification

**ISO9001** : 2015: Quality Management System  
**ISO14001** : 2015: Environment Management System  
**ISO45001** : 2018: Occupational health and safety management systems  
**IEC61215, IEC61730, IEC62716**



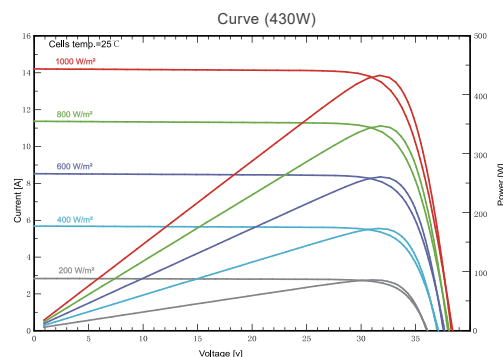
\* Different markets have different certification requirements.  
Also, the products are under rapid innovation.  
Please confirm the certification status with regional sales representatives.

# Aurora Pro

## RS425~450S8-108GANT

### Module Specification

Cell Type	108 [ 2 x ( 9 x 6 ) ] / 182*91.875mm
Dimensions (mm)	1722*1134*30
Weight (kg)	24
Front Cover	2.0mm, Anti-Reflection Coating
Rear Cover	2.0mm, Heat Strengthened Glass
Junction Box	IP68 (3 diodes)
Cables	TUV 1x4.0mm <sup>2</sup> , (+):300mm(-):300mm or Customized length
Connector Type	MC4-EVO2 / MC4 compatible



### Electrical Specifications

Module Type	RS425S8-108GANT		RS430S8-108GANT		RS435S8-108GANT		RS440S8-108GANT		RS445S8-108GANT		RS450S8-108GANT	
	STC <sup>1</sup>	NOCT <sup>2</sup>	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	425	318	430	322	435	326	440	330	445	334	450	338
Maximum Power Current (Imp/A)	13.36	10.69	13.44	10.76	13.52	10.84	13.60	10.91	13.68	10.98	13.76	11.05
Maximum Power Voltage (Vmp/V)	31.82	29.75	32.00	29.93	32.18	30.07	32.36	30.26	32.53	30.42	32.71	30.59
Short-circuit Current (Isc/A)	14.13	11.31	14.21	11.37	14.29	11.43	14.37	11.49	14.45	11.56	14.53	11.62
Open-circuit Voltage (Voc/V)	38.21	36.16	38.40	36.35	38.59	36.54	38.78	36.73	38.97	36.92	39.16	37.11
Module Efficiency (%)	21.76		22.02		22.28		22.53		22.79		23.04	

<sup>1</sup> STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, AM 1.5

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

### Electrical Specifications(BNPI<sup>1</sup>)

Nameplate Power (W)	425	430	435	440	445	450
Maximum Power (Pmax/W)	458	463	469	474	480	485
Maximum Power Current (Imp/A)	14.48	14.56	14.65	14.74	14.82	14.91
Maximum Power Voltage (Vmp/V)	31.63	31.82	32.00	32.18	32.36	32.53
Short-circuit Current (Isc/A)	15.31	15.40	15.49	15.58	15.66	15.75
Open-circuit Voltage (Voc/V)	38.02	38.21	38.40	38.59	38.78	38.97

<sup>1</sup> BNPI: Front radiation 1000W/m<sup>2</sup>, Rear radiation 135W/m<sup>2</sup>, Module temperature 25°C, AM=1.5

### Temperature Characteristics

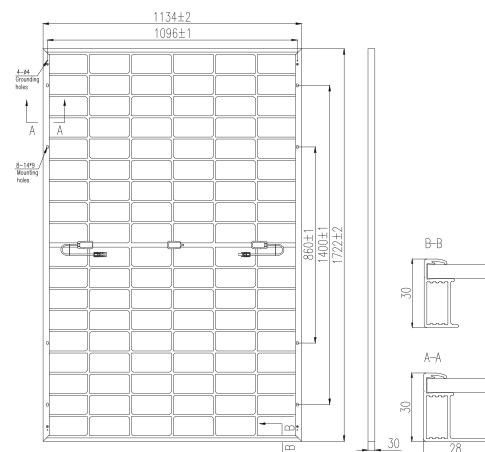
Nominal Operating Cell Temperature (NOCT/°C)	42±2
Temperature Coefficient of Pmax (%/°C)	-0.310
Temperature Coefficient of Voc (%/°C)	-0.26
Temperature Coefficient of Isc (%/°C)	+0.046

### Packaging

Container	20GP	40HQ
Pallet Dimensions (mm)	1765*1110*2230	1765*1110*2540
Pieces per Pallet	63	72
Pieces per Container	378	936

### Operating Conditions

Operating Temperature (°C)	-40 to +85
Maximum System Voltage (V)	1500 DC (IEC)
Overcurrent Protection Rating (A)	30
Protection Class	Class II
Max. Test Load, Push/Pull (Pa)	Front 5400 / Back 2400



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CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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No special undertaking or warranty for the suitability of special purpose or being installed in extraordinary surroundings is granted unless as otherwise specifically committed by manufacturer in contract document.

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