

S8-108GANT

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



420 - 445W / Power Output

0~5W / Pmax Tolerance

22.79% / 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

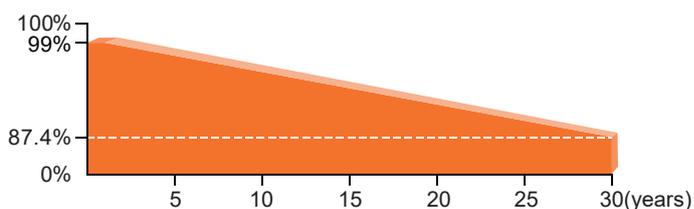
Excellent Anti-PID performance guarantee via optimized mass-production process and materials control



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.

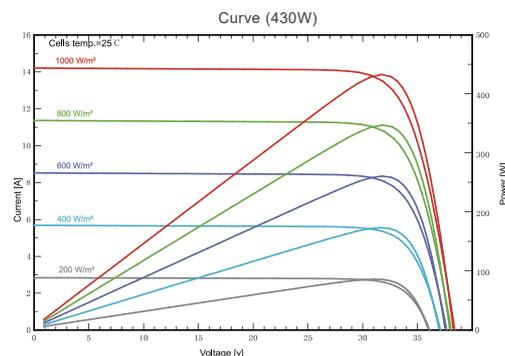
Please confirm the certification status with regional sales representatives.

Aurora Pro

RS420~445S8-108GANT

Module Specification

| | |
|-----------------|--|
| Cell Type | 108 [2 x (9 x 6)] / 182*91mm |
| Dimensions (mm) | 1722*1134*35 |
| Weight (kg) | 24.5 |
| Front Cover | 2.0mm, Anti-Reflection Coating |
| Rear Cover | 2.0mm, Heat Strengthened Glass |
| Junction Box | IP68 (3 diodes) |
| Cables | TUV 1x4.0mm ² , (+):300mm(-):200mm or Customized length |
| Connector Type | MC4-EVO2 / MC4 compatible |



Electrical Specifications

| Module Type | RS420S8-108GANT | | RS425S8-108GANT | | RS430S8-108GANT | | RS435S8-108GANT | | RS440S8-108GANT | | RS445S8-108GANT | |
|-------------------------------|------------------|-------------------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|
| | STC ¹ | NOCT ² | STC | NOCT |
| Maximum Power (Pmax/W) | 420 | 318 | 425 | 322 | 430 | 326 | 435 | 330 | 440 | 334 | 445 | 338 |
| Maximum Power Current (Imp/A) | 13.28 | 10.69 | 13.36 | 10.76 | 13.44 | 10.84 | 13.52 | 10.91 | 13.60 | 10.98 | 13.68 | 11.05 |
| Maximum Power Voltage (Vmp/V) | 31.63 | 29.75 | 31.82 | 29.93 | 32.00 | 30.07 | 32.18 | 30.26 | 32.36 | 30.42 | 32.53 | 30.59 |
| Short-circuit Current (Isc/A) | 14.05 | 11.31 | 14.13 | 11.37 | 14.21 | 11.43 | 14.29 | 11.49 | 14.37 | 11.56 | 14.45 | 11.62 |
| Open-circuit Voltage (Voc/V) | 38.02 | 36.16 | 38.21 | 36.35 | 38.40 | 36.54 | 38.59 | 36.73 | 38.78 | 36.92 | 38.97 | 37.11 |
| Module Efficiency (%) | 21.51 | | 21.76 | | 22.02 | | 22.28 | | 22.53 | | 22.79 | |

¹ STC: Irradiance 1000W/m², Cell Temperature 25°C, AM 1.5

² NOCT: Irradiance 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

Electrical Specifications(BNPI¹)

| Nameplate Power (W) | 420 | 425 | 430 | 435 | 440 | 445 |
|-------------------------------|-------|-------|-------|-------|-------|-------|
| 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 |

¹ BNPI: Front radiation 1000W/m², Rear radiation 135W/m², Module temperature 25°C, AM=1.5

Temperature Characteristics

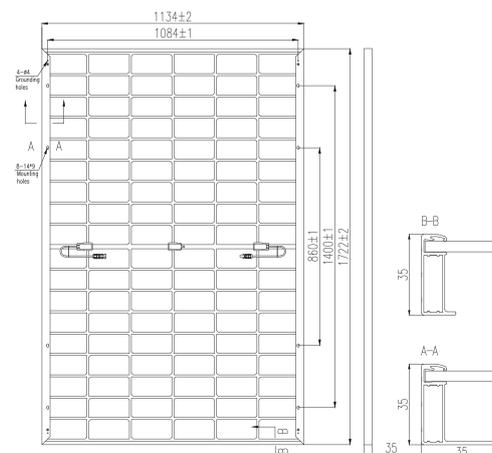
| | |
|--|--------|
| Nominal Operating Cell Temperature (NOCT/°C) | 42±2 |
| Temperature Coefficient of Pmax (%/°C) | -0.310 |
| Temperature Coefficient of Voc (%/°C) | -0.26 |
| Temperature Coefficient of Isc (%/°C) | +0.046 |

Packaging

| | | |
|------------------------|----------------|----------------|
| Container | 20GP | 40HQ |
| Pallet Dimensions (mm) | 1765*1135*2220 | 1765*1135*2540 |
| Pieces per Pallet | 54 | 62 |
| Pieces per Container | 324 | 806 |

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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