

S8-156GANT

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



625 - 650W / Power Output

0~5W / Pmax Tolerance

23.25% / Maximum Module Efficiency

- 

Outstanding Low Light Performance
Higher power output even under low-light environments like on cloudy or foggy days.
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Better Temperature Coefficient
Higher power generation under working conditions, thanks to passivating contact cell technology
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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
- 

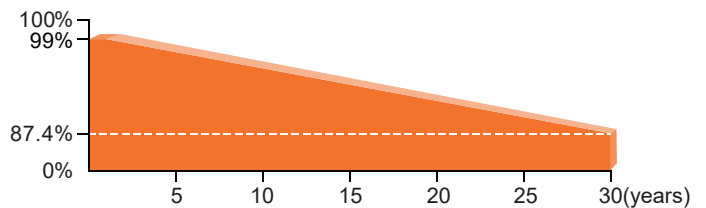
10%-30% Additional Power Generation
30 years lifespan brings 10%-30% additional power generation comparing with conventional P-type module
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Zero LID (Light Induced Degradation)
N-type solar cell has no LID naturally which can increase power generation
- 

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



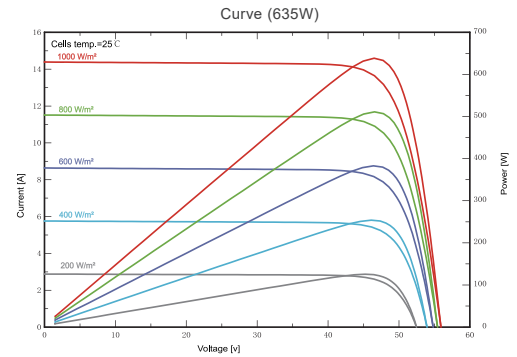
* Different markets have different certification requirements.
Also, the products are under rapid innovation.
Please confirm the certification status with regional sales representatives.

Aurora Pro

RS625~650S8-156GANT

Module Specification

| | |
|-----------------|--|
| Cell Type | 156 [2 x (13 x 6)] / 182*91.875mm |
| Dimensions (mm) | 2465*1134*35 |
| Weight (kg) | 35 |
| 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(-):300mm or Customized length |
| Connector Type | MC4-EVO2 / MC4 compatible |



Electrical Specifications

| Module Type | RS625S8-156GANT | | RS630S8-156GANT | | RS635S8-156GANT | | RS640S8-156GANT | | RS645S8-156GANT | | RS650S8-156GANT | |
|-------------------------------|------------------|-------------------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|
| | STC ¹ | NOCT ² | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power (Pmax/W) | 625 | 473 | 630 | 477 | 635 | 481 | 640 | 485 | 645 | 489 | 650 | 493 |
| Maximum Power Current (Imp/A) | 13.49 | 10.85 | 13.55 | 10.91 | 13.61 | 10.97 | 13.67 | 11.03 | 13.73 | 11.09 | 13.79 | 11.15 |
| Maximum Power Voltage (Vmp/V) | 46.34 | 43.59 | 46.50 | 43.72 | 46.66 | 43.85 | 46.82 | 43.97 | 46.98 | 44.09 | 47.14 | 44.22 |
| Short-circuit Current (Isc/A) | 14.27 | 11.50 | 14.33 | 11.55 | 14.39 | 11.60 | 14.45 | 11.65 | 14.51 | 11.70 | 14.57 | 11.74 |
| Open-circuit Voltage (Voc/V) | 55.55 | 52.98 | 55.74 | 53.17 | 55.93 | 53.36 | 56.12 | 53.55 | 56.31 | 53.74 | 56.50 | 53.93 |
| Module Efficiency (%) | 22.36 | | 22.54 | | 22.72 | | 22.90 | | 23.07 | | 23.25 | |

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) | 625 | 630 | 635 | 640 | 645 | 650 |
|-------------------------------|-------|-------|-------|-------|-------|-------|
| Maximum Power (Pmax/W) | 681 | 687 | 692 | 698 | 703 | 709 |
| Maximum Power Current (Imp/A) | 14.70 | 14.77 | 14.83 | 14.90 | 14.97 | 15.03 |
| Maximum Power Voltage (Vmp/V) | 46.34 | 46.50 | 46.66 | 46.82 | 46.98 | 47.14 |
| Short-circuit Current (Isc/A) | 15.55 | 15.62 | 15.69 | 15.75 | 15.82 | 15.88 |
| Open-circuit Voltage (Voc/V) | 55.55 | 55.74 | 55.93 | 56.12 | 56.31 | 56.50 |

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

Temperature Characteristics

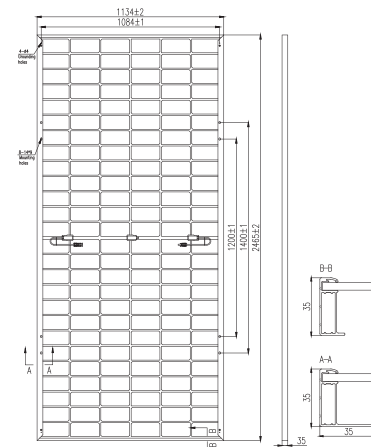
| | |
|--|--------|
| Nominal Operating Cell Temperature (NOCT/°C) | 42±2 |
| Temperature Coefficient of Pmax (%/°C) | -0.310 |
| Temperature Coefficient of Voc (%/°C) | -0.26 |
| Temperature Coefficient of Isc (%/°C) | +0.046 |

Packaging

| | | |
|------------------------|----------------|----------------|
| Container | 20GP | 40HQ |
| Pallet Dimensions (mm) | 2505*1135*2220 | 2505*1135*2540 |
| Pieces per Pallet | 54 | 62 |
| Pieces per Container | 216 | 496 |

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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