# Aurora Pro

## S8RB-132GANT

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



**615-640W** / Power Output

**0~5W** / Power Sorting Range

**23.69%** / 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

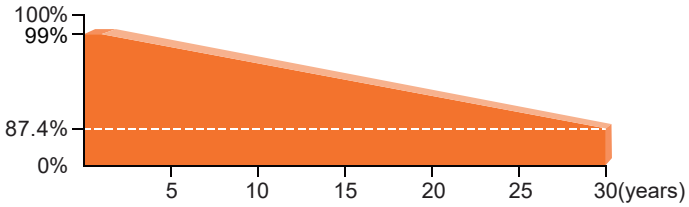
### 10%-30% Additional Power Generation
30 years lifespan brings 10%-30% additional power generation comparing with conventional P-type module

### Zero LID (Light Induced Degradation)
N-type solar cell has no LID naturally which can increase power generation

### PID Resistance (optional)
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
Front side at STC




**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**

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

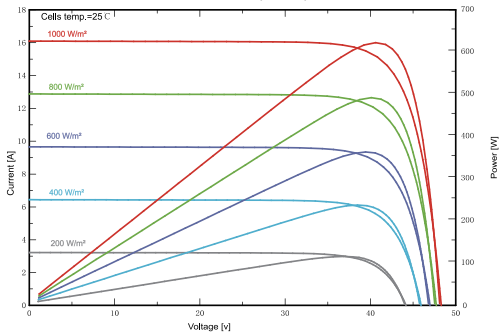
# Aurora Pro

## RS615~640S8RB-132GANT

## Module Specification

| | |
|---|---|
| Cell Type | 132 [ 2 x ( 11 x 6 ) ] / 182*105mm |
| Dimensions (mm) | 2382*1134*30 |
| Weight (kg) | 33.5 |
| Front Cover | 2.0mm, Anti-Reflection Coating |
| Rear Cover | 2.0mm, Heat Strengthened Glass |
| Junction Box | IP68 (3 diodes) |
| Cables | TUV 1x4.0mm², (+):300mm/(-):<br>300mm or Customized length |
| Connector Type | XTONG TECH / PV-XT-101.2 |

Curve (615W)




## Electrical Specifications

| Module Type | RS615S8RB-132GANT | | RS620S8RB-132GANT | | RS625S8RB-132GANT | | RS630S8RB-132GANT | | RS635S8RB-132GANT | | RS640S8RB-132GANT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Testing Condition | STC[1] | NOCT[2] | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power (Pmax/W) | 615 | 467 | 620 | 471 | 625 | 474 | 630 | 478 | 635 | 482 | 640 | 486 |
| Maximum Power Current (Imp/A) | 15.39 | 12.42 | 15.46 | 12.47 | 15.52 | 12.52 | 15.58 | 12.57 | 15.64 | 12.62 | 15.70 | 12.67 |
| Maximum Power Voltage (Vmp/V) | 39.97 | 37.58 | 40.12 | 37.72 | 40.28 | 37.88 | 40.44 | 38.03 | 40.60 | 38.19 | 40.76 | 38.34 |
| Short-circuit Current (Isc/A) | 16.10 | 12.99 | 16.15 | 13.03 | 16.20 | 13.07 | 16.25 | 13.11 | 16.30 | 13.15 | 16.35 | 13.19 |
| Open-circuit Voltage (Voc/V) | 48.30 | 46.08 | 48.50 | 46.27 | 48.70 | 47.46 | 48.90 | 47.65 | 49.10 | 47.84 | 49.30 | 47.03 |
| Module Efficiency (%) | 22.77 | | 22.95 | | 23.14 | | 23.32 | | 23.51 | | 23.69 | |
| BSI Short-circuit Current (A) | 19.96±5% | | 20.03±5% | | 20.09±5% | | 20.15±5% | | 20.21±5% | | 20.27±5% | |

[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
BSI Condition: front 1000W/m², rear 300W/m²
Measurement tolerance: Pmax±3%, Voc±3%, Isc±4%

## Electrical Specifications(BNPI[1])

| Nameplate Power (W) | 615 | 620 | 625 | 630 | 635 | 640 |
|---|---|---|---|---|---|---|
| Maximum Power (Pmax/W) | 670 | 676 | 681 | 687 | 692 | 698 |
| Maximum Power Current (Imp/A) | 16.78 | 16.85 | 16.91 | 16.98 | 17.05 | 17.11 |
| Maximum Power Voltage (Vmp/V) | 39.97 | 40.12 | 40.28 | 40.44 | 40.60 | 40.76 |
| Short-circuit Current (Isc/A) | 17.55 | 17.60 | 17.66 | 17.71 | 17.77 | 17.82 |
| Open-circuit Voltage (Voc/V) | 48.30 | 48.50 | 48.70 | 48.90 | 49.10 | 49.30 |

[1] BNPI: Front radiation 1000W/m², Rear radiation 135W/m², Module temperature 25°C, AM=1.5
Measurement tolerance: Pmax±3%, Voc±3%, Isc±4%
Bifaciality Coefficient: φPmax=81±3% φVoc=99±3% φIsc=80±4%

## Operating Conditions

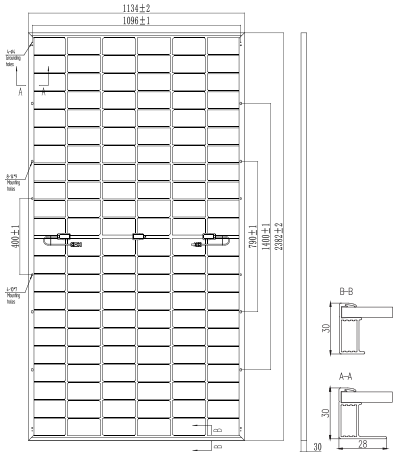
| | |
|---|---|
| Operating Temperature (°C) | [$T_{98}$]≤70 |
| Maximum System Voltage (V) | 1500 DC (IEC) |
| Overcurrent Protection Rating (A) | 35 |
| Protection Class | Class II |
| Max. Test Load, Push/Pull (Pa) | +5400 / -2400, Safety factor 1.5 |
| Fire Rating | Class C |

## 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) | 2400*1120*1258 | 2400*1120*1258 |
| Pieces per Pallet | 36 | 36 |
| Pieces per Container | 144 | 720 |

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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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