

S8-144GANT

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



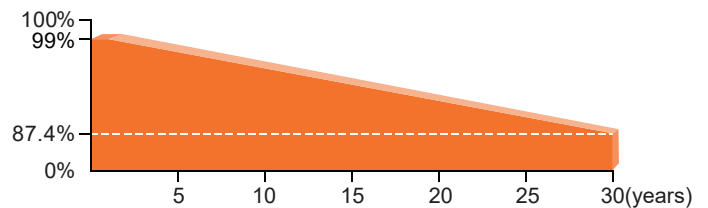
605 - 630W / Power Output

0~5W / Pmax Tolerance

23.32% / 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



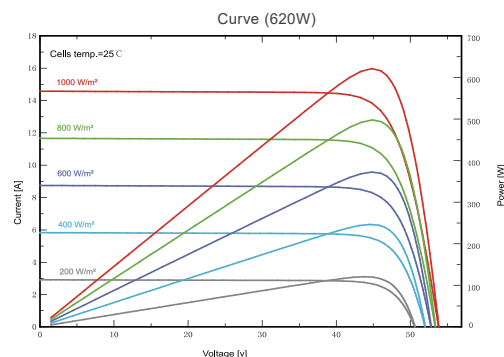
* Different markets have different certification requirements.
 Also, the products are under rapid innovation.
 Please confirm the certification status with regional sales representatives.

Aurora Pro

RS605~630S8-144GANT

Module Specification

Cell Type	144 [2 x (12 x 6)] / 182*95.8mm
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 1x4.0mm ² , (+):300mm(-):300mm or Customized length
Connector Type	MC4-EVO2 / MC4 compatible



Electrical Specifications

Module Type	RS605S8-144GANT		RS610S8-144GANT		RS615S8-144GANT		RS620S8-144GANT		RS625S8-144GANT		RS630S8-144GANT	
	STC ¹	NOCT ²	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	605	463	610	467	615	471	620	475	625	479	630	483
Maximum Power Current (Imp/A)	13.77	11.24	13.84	11.30	13.91	11.35	13.98	11.41	14.05	11.47	14.12	11.53
Maximum Power Voltage (Vmp/V)	43.94	41.19	44.08	41.34	44.22	41.48	44.35	41.63	44.49	41.77	44.62	41.91
Short-circuit Current (Isc/A)	14.37	11.82	14.44	11.87	14.51	11.92	14.58	11.96	14.65	12.01	14.72	12.06
Open-circuit Voltage (Voc/V)	53.21	50.16	53.41	50.35	53.61	50.54	53.81	50.73	54.01	50.92	54.21	51.11
Module Efficiency (%)	22.40		22.58		22.77		22.95		23.14		23.32	

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)	605	610	615	620	625	630
Maximum Power (Pmax/W)	659	665	670	676	681	687
Maximum Power Current (Imp/A)	15.01	15.09	15.16	15.24	15.31	15.39
Maximum Power Voltage (Vmp/V)	43.94	44.08	44.22	44.35	44.49	44.62
Short-circuit Current (Isc/A)	15.66	15.74	15.82	15.89	15.97	16.04
Open-circuit Voltage (Voc/V)	53.21	53.41	53.61	53.81	54.01	54.21

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

Temperature Characteristics

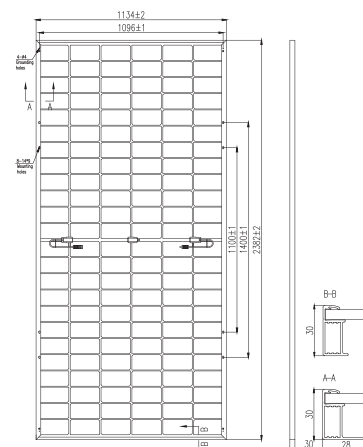
Nominal Operating Cell Temperature (NOCT/°C)	42±2
Temperature Coefficient of Pmax (%/°C)	-0.310
Temperature Coefficient of Voc (%/°C)	-0.26
Temperature Coefficient of Isc (%/°C)	+0.046

Packaging

Container	40HQ (Inner diameter length 12300mm)
Pallet Dimensions (mm)	2420*1130*2540
Pieces per Pallet	36
Pieces per Container	720

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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