

## S8-144GANT

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

**575 - 600W** / Power Output

**0~5W** / Pmax Tolerance

**23.23%** / 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

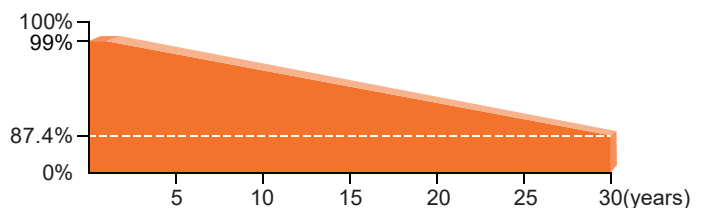
Excellent Anti-PID performance guarantee via optimized mass-production process and materials control



### 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



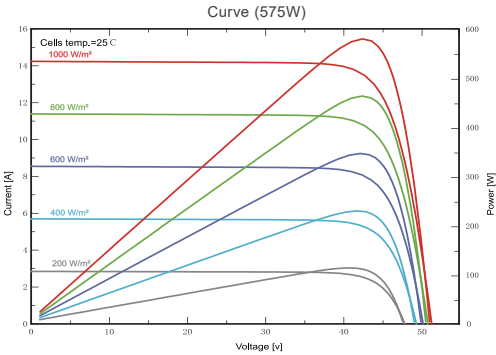
\* Different markets have different certification requirements.

Also, the products are under rapid innovation.

Please confirm the certification status with regional sales representatives.

### Module Specification

Cell Type	144 [ 2 x ( 12 x 6 ) ] / 182*91.875mm
Dimensions (mm)	2278*1134*30
Weight (kg)	32.5
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	RS575S8-144GANT		RS580S8-144GANT		RS585S8-144GANT		RS590S8-144GANT		RS595S8-144ANT		RS600S8-144ANT	
Testing Condition	STC <sup>1</sup>	NOCT <sup>2</sup>	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	575	435	580	439	585	442	590	446	595	450	600	454
Maximum Power Current (Imp/A)	13.47	10.84	13.54	10.89	13.60	10.95	13.67	11.00	13.73	11.06	13.80	11.12
Maximum Power Voltage (Vmp/V)	42.69	40.13	42.84	40.25	43.02	40.40	43.17	40.53	43.34	40.67	43.49	40.81
Short-circuit Current (Isc/A)	14.24	11.49	14.30	11.54	14.36	11.58	14.42	11.63	14.48	11.68	14.54	11.72
Open-circuit Voltage (Voc/V)	51.23	48.83	51.43	49.02	51.63	49.21	51.83	49.40	52.03	49.59	52.23	49.78
Module Efficiency (%)	22.26		22.45		22.65		22.84		23.03		23.23	

<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)	575	580	585	590	595	600
Maximum Power (Pmax/W)	627	632	638	643	649	654
Maximum Power Current (Imp/A)	14.68	14.76	14.82	14.90	14.97	15.04
Maximum Power Voltage (Vmp/V)	42.69	42.84	43.02	43.17	43.34	43.49
Short-circuit Current (Isc/A)	15.52	15.59	15.65	15.72	15.78	15.85
Open-circuit Voltage (Voc/V)	51.23	51.43	51.63	51.83	52.03	52.23

<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

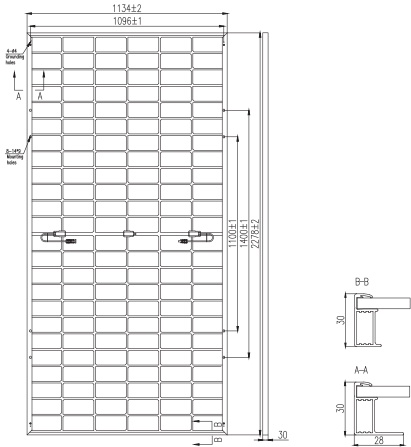
Nominal Operating Cell Temperature (NOCT/°C)	42±2
Temperature Coefficient of Pmax (%/°C)	-0.310
Temperature Coefficient of Voc (%/°C)	-0.26
Temperature Coefficient of Isc (%/°C)	+0.046

### Packaging

Container	20GP	40HQ
Pallet Dimensions (mm)	2320*1130*2200	2320*1130*2540
Pieces per Pallet	36	72
Pieces per Container	315	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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