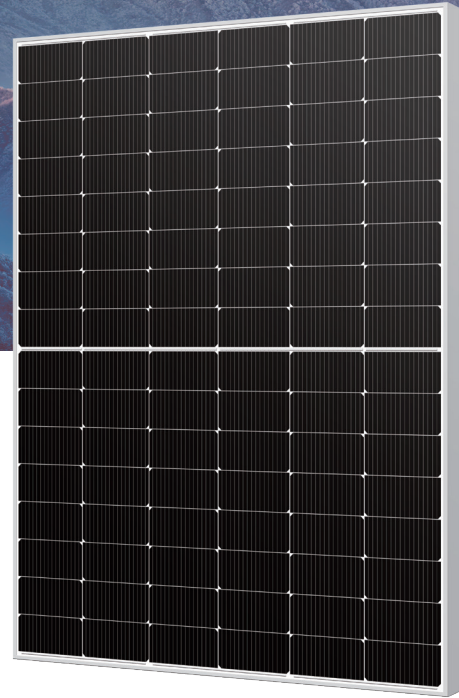


## S8R-96GANT

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



**430 - 455W** / Power Output

**0~5W** / Pmax Tolerance

**22.77%** / 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

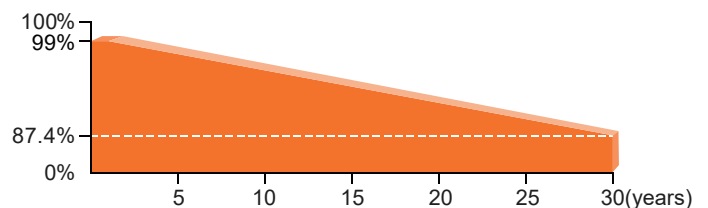
Excellent Anti-PID performance guarantee via optimized mass-production process and materials control



### 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



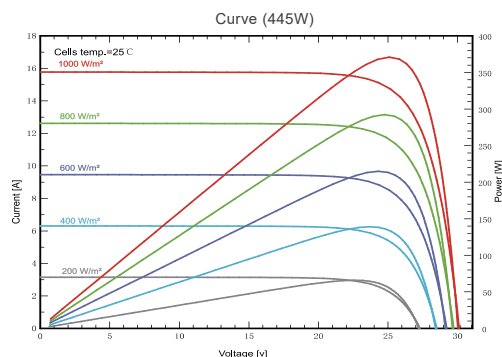
\* Different markets have different certification requirements.

Also, the products are under rapid innovation.

Please confirm the certification status with regional sales representatives.

### Module Specification

Cell Type	96 [ 2 x ( 8 x 6 ) ] / 182*105mm
Dimensions (mm)	1762*1134*30
Weight (kg)	28
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	RS430S8R-96GANT		RS435S8R-96GANT		RS440S8R-96GANT		RS445S8R-96GANT		RS450S8R-96GANT		RS455S8R-96GANT	
	STC <sup>1</sup>	NOCT <sup>2</sup>	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	430	324	435	328	440	333	445	337	450	341	455	346
Maximum Power Current (Imp/A)	14.78	11.88	14.83	11.92	14.88	11.96	14.93	12.00	14.98	12.04	15.03	12.08
Maximum Power Voltage (Vmp/V)	29.10	27.27	29.34	27.51	29.57	27.84	29.81	28.08	30.05	28.32	30.28	28.59
Short-circuit Current (Isc/A)	15.49	12.47	15.56	12.53	15.61	12.57	15.65	12.60	15.69	12.63	15.75	12.68
Open-circuit Voltage (Voc/V)	34.92	33.04	35.18	33.29	35.43	33.52	35.69	33.77	35.95	34.02	36.21	34.26
Module Efficiency (%)	21.52		21.77		22.02		22.27		22.52		22.77	

<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)	430	435	440	445	450	455
Maximum Power (Pmax/W)	469	474	480	485	491	496
Maximum Power Current (Imp/A)	16.11	16.16	16.22	16.27	16.33	16.38
Maximum Power Voltage (Vmp/V)	29.10	29.34	29.57	29.81	30.05	30.28
Short-circuit Current (Isc/A)	16.88	16.96	17.01	17.06	17.10	17.16
Open-circuit Voltage (Voc/V)	34.92	35.18	35.43	35.69	35.95	36.21

<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

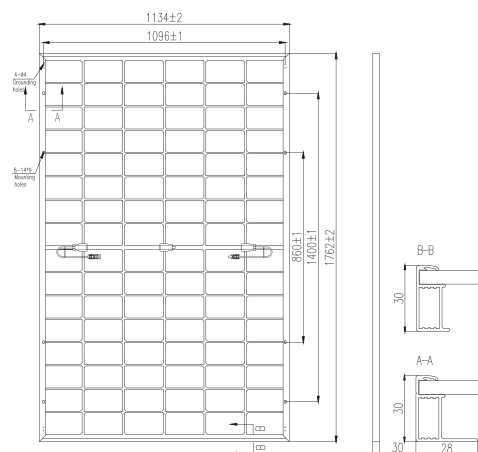
Nominal Operating Cell Temperature (NOCT/°C)	42±2
Temperature Coefficient of Pmax (%/°C)	-0.310
Temperature Coefficient of Voc (%/°C)	-0.26
Temperature Coefficient of Isc (%/°C)	+0.046

### Packaging

Container	20GP	40HQ
Pallet Dimensions (mm)	1795*1130*2220	1795*1130*2532
Pieces per Pallet	63	72
Pieces per Container	378	936

### 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.