

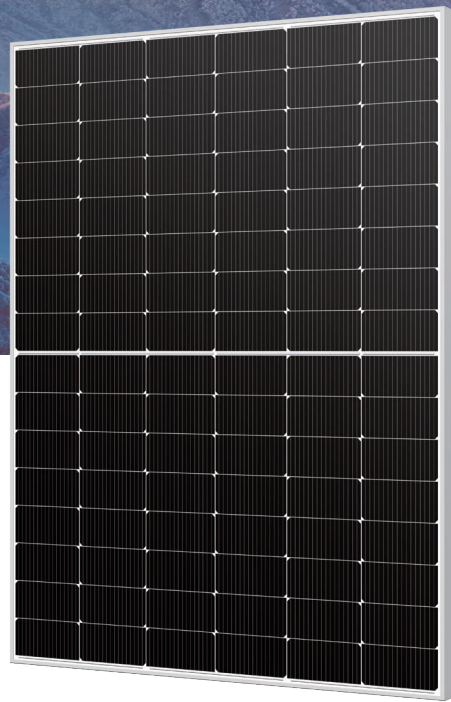
S8R-96GANT

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

440 - 465W / Power Output

0~5W / Power Sorting Range

23.27% / 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

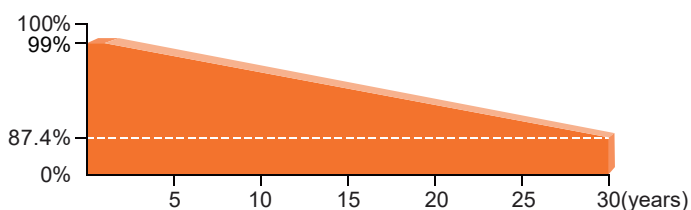


Enhanced Mechanical Load

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



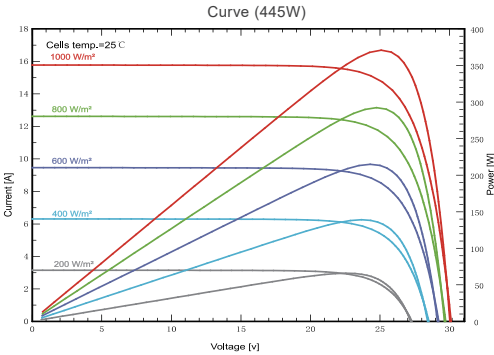
* Different markets have different certification requirements.

Also, the products are under rapid innovation.

Please confirm the certification status with regional sales representatives.

Module Specification

Cell Type	96 [2 x (8 x 6)] / 182*105mm
Dimensions (mm)	1762*1134*30
Weight (kg)	24
Front Cover	2.0mm, Anti-Reflection Coating
Rear Cover	2.0mm, Heat Strengthened Glass
Junction Box	IP68 (3 diodes)
Cables	TUV 1x4.0mm², (+):300mm/(-): 300mm or Customized length
Connector Type	XTONG TECH / PV-XT-101.2



Electrical Specifications

Module Type	RS440S8R-96GANT		RS445S8R-96GANT		RS450S8R-96GANT		RS455S8R-96GANT		RS460S8R-96GANT		RS465S8R-96GANT	
Testing Condition	STC ¹	NOCT ²	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	440	334	445	338	450	342	455	345	460	349	465	353
Maximum Power Current (Imp/A)	14.88	12.01	14.93	12.05	14.98	12.09	15.03	12.13	15.08	12.17	15.13	12.21
Maximum Power Voltage (Vmp/V)	29.57	27.81	29.81	28.03	30.05	28.25	30.28	28.47	30.51	28.69	30.75	28.91
Short-circuit Current (Isc/A)	15.61	12.60	15.65	12.63	15.69	12.66	15.75	12.71	15.80	12.75	15.85	12.79
Open-circuit Voltage (Voc/V)	35.43	33.80	35.69	34.05	35.95	34.30	36.21	34.54	36.46	34.78	36.72	35.03
Module Efficiency (%)	22.02		22.27		22.52		22.77		23.02		23.27	
BSI Short-circuit Current (A)	19.36±5%		19.41±5%		19.46±5%		19.53±5%		19.59±5%		19.65±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(BNPI¹)

Nameplate Power (W)	440	445	450	455	460	465
Maximum Power (Pmax/W)	480	485	491	496	501	507
Maximum Power Current (Imp/A)	16.22	16.27	16.33	16.38	16.44	16.49
Maximum Power Voltage (Vmp/V)	29.57	29.81	30.05	30.28	30.51	30.75
Short-circuit Current (Isc/A)	17.01	17.06	17.10	17.16	17.22	17.27
Open-circuit Voltage (Voc/V)	35.43	35.69	35.95	36.21	36.46	36.72

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: $\phi P_{max}=81\pm3\%$ $\phi Voc=99\pm3\%$ $\phi Isc=80\pm4\%$

Temperature Characteristics

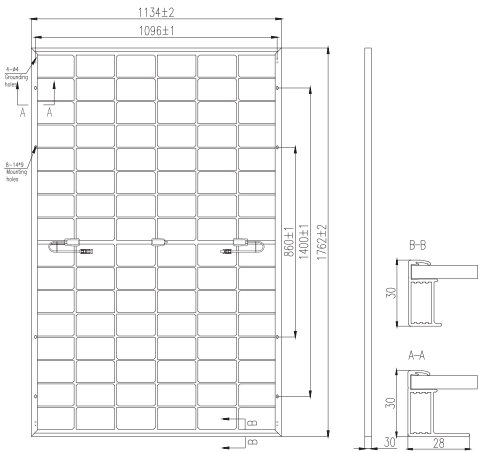
Nominal Operating Cell Temperature (NOCT/°C)	42±2
Temperature Coefficient of Pmax (%/°C)	-0.310
Temperature Coefficient of Voc (%/°C)	-0.26
Temperature Coefficient of Isc (%/°C)	+0.046

Packaging

Container	20GP	40HQ
Pallet Dimensions (mm)	1795*1120*1258	1795*1120*1258
Pieces per Pallet	36	36
Pieces per Container	216	936

Operating Conditions

Operating Temperature (°C)	[T _g] _{≤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



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Country of Manufacture: CHINA

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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