

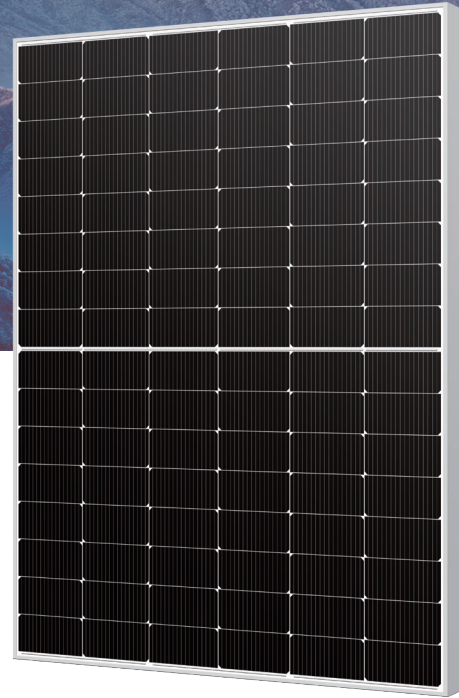
S8R-96GANT

**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

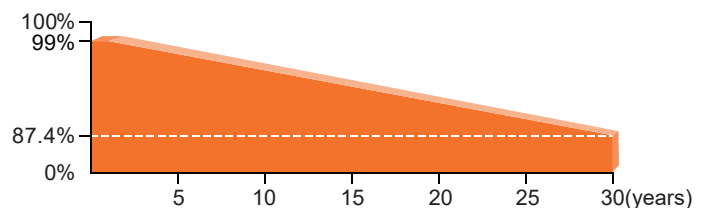
Excellent Anti-PID performance guarantee via optimized mass-production process and materials control



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



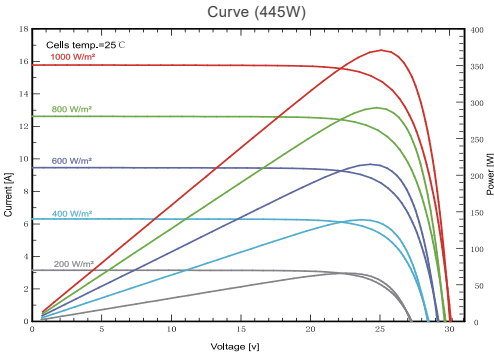
* Different markets have different certification requirements.

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)	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	MC4-EVO2 / MC4 compatible



Electrical Specifications

Module Type	RS430S8R-96GANT		RS435S8R-96GANT		RS440S8R-96GANT		RS445S8R-96GANT		RS450S8R-96GANT		RS455S8R-96GANT	
Testing Condition	STC ¹	NOCT ²	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	

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)	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

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

Temperature Characteristics

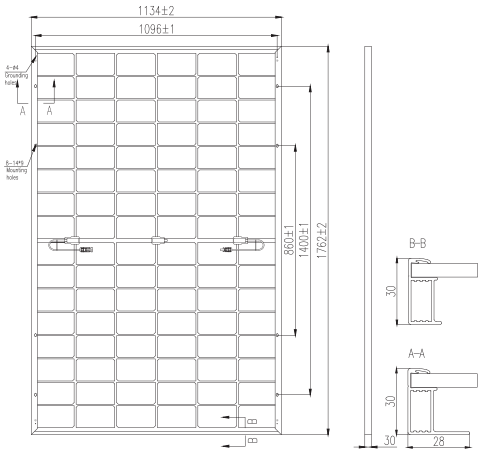
Nominal Operating Cell Temperature (NOCT/°C)	42±2
Temperature Coefficient of Pmax (%/°C)	-0.310
Temperature Coefficient of Voc (%/°C)	-0.26
Temperature Coefficient of Isc (%/°C)	+0.046

Packaging

Container	20GP	40HQ
Pallet Dimensions (mm)	1795*1142*2070	1795*1120*1258
Pieces per Pallet	56	36
Pieces per Container	336	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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