Aurora Pro

N-Type

S8-144GANT 565~585W

Bifacial Dual Glass

Mono Module

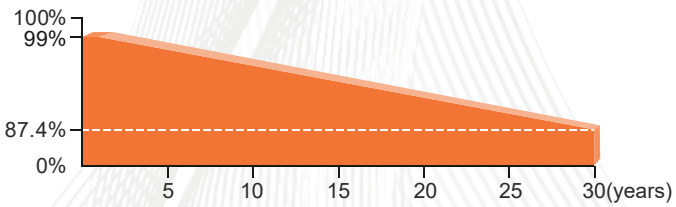
585W
Maximum Power Output

22.65%
Maximum Module Efficiency

0~+5W
Power Output Tolerance

IEC61215, IEC61730
ISO9001:2015: Quality Management System
ISO14001:2015: Environment Management System
ISO45001:2018: Occupational health and safety management systems

Linear Performance Warranty



12 Years Product Warranty on Materials and Workmanship

30 Years Linear Performance Warranty

0.40% Subsequent Annual Degradation

10%-30% Additional Power Generation

- 30 years lifespan brings 10%-30% additional power generation comparing with conventional P-type module

Outstanding Low Light Performance

- Higher power output even under low-light environments like on cloudy or foggy days.

Zero LID (Light Induced Degradation)

- N-type solar cell has no LID naturally which can increase power generation

Better Temperature Coefficient

- Higher power generation under working conditions, thanks to passivating contact cell technology

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)

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

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Aurora Pro

RS565~585S8-144GANT

Jiangsu Runda PV Co.,Ltd.

Electrical Properties(STC*)

Power Output(Wp)	565	570	575	580	585
Max Power Tolerance(W)	0-5	0-5	0-5	0-5	0-5
Module Efficiency(%)	21.87	22.07	22.26	22.45	22.65
Voltage Mpp-Vmpp(V)	42.35	42.51	42.69	42.87	43.02
Current Mpp-Impp(A)	13.34	13.41	13.47	13.53	13.60
Voltage Open Circuit-Voc(V)	50.83	51.03	51.23	51.43	51.63
Short Circuit Current-Isc(A)	14.12	14.18	14.24	14.30	14.36

*STC: Irradiance 1000W/m², Cell Temperature 25°C, AM 1.5

Electrical Properties(NOCT*)

Power Output(Wp)	427	431	435	439	443
Voltage Mpp-Vmpp(V)	39.79	39.98	40.13	40.28	40.44
Current Mpp-Impp(A)	10.73	10.78	10.84	10.90	10.96
Voltage Open Circuit-Voc(V)	48.45	48.64	48.83	49.02	49.21
Short Circuit Current-Isc(A)	11.40	11.45	11.49	11.54	11.59

*NOCT: Irradiance 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

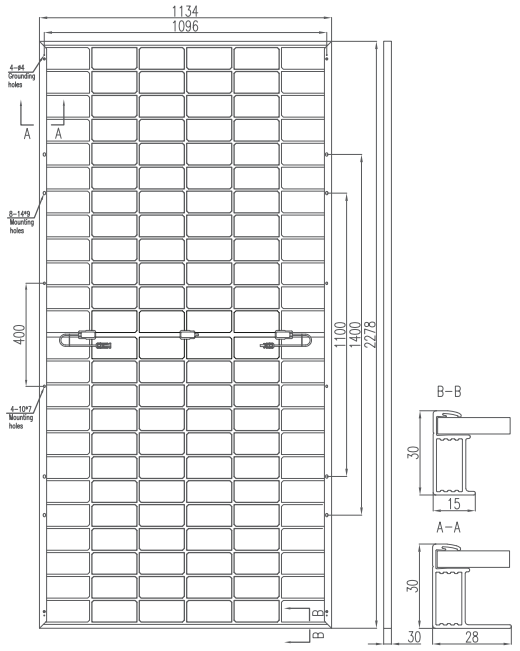
With Different Power Generation Gain (regarding 570W as an example)

Power Gain (%)	Power Output (Wp)	Voltage Mpp-Vmpp (V)	Current Mpp-Impp (A)	Voltage Open Circuit-Voc (V)	Short Circuit Current-Isc (A)
10	627	42.51	14.75	51.03	15.60
15	656	42.51	15.42	51.03	16.31
20	684	42.51	16.09	51.03	17.02
25	713	42.51	16.76	51.03	17.73
30	741	42.51	17.43	51.03	18.43

Packaging Configuration

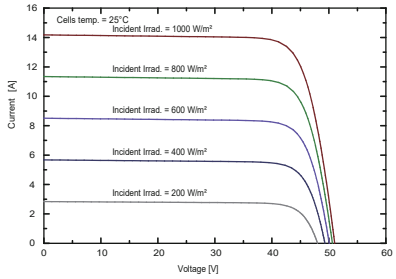
Frame	30mm
Packing Type	40'HQ
Piece/Pallet	36
Piece/Container	720

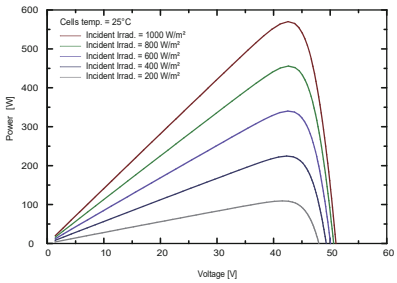
Engineering Drawing (mm)

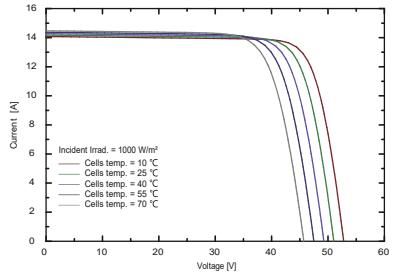


Note: 400mm hole distance is only applicable when specified by the customer

Characteristic Curves(570W)







Mechanical Properties

Cell Size	182mm*91mm
Number of Cells	144 [2 x (12 x 6)]
Module Dimension	2278*1134*30mm
Weight	32.5kg
Front Glass	2.0mm, Anti-Reflection Coating
Rear Glass	2.0mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 (3 diodes)
Cable Length	TUV 1x4.0mm², (+):300mm/ (-):200mm or Customized length

Operating Properties

Operating Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	30A
Power Tolerance	0~+5W
Bifaciality	80±5%

Temperature Coefficient

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

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