Jiangsu Runda PV Co.,Ltd.

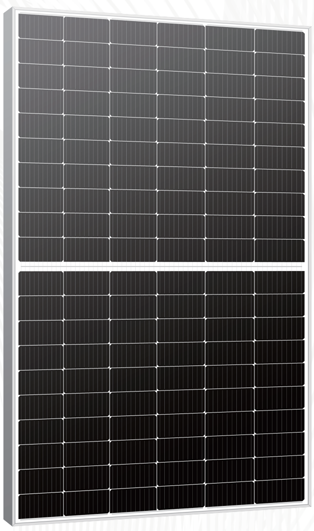
Aurora Pro

N-Type

S8-120GANT 460~480W

Bifacial Dual Glass

Mono Module



480W
Maximum Power Output

22.17%
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

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)

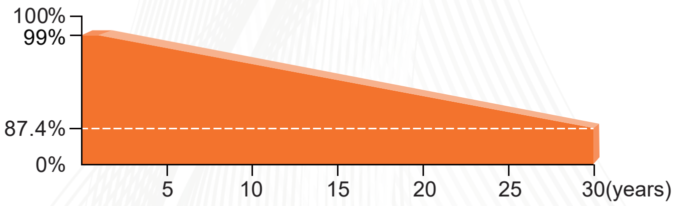
Lower LCOE

- 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

Linear Performance Warranty



12 Years Product Warranty on Materials and Workmanship

30 Years Linear Performance Warranty

0.40% Subsequent Annual Degradation

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Aurora Pro

RS460~480S8-120GANT

Jiangsu Runda PV Co.,Ltd.

Electrical Properties(STC*)

Power Output(Wp)	460	465	470	475	480
Max Power Tolerance(W)	0-5	0-5	0-5	0-5	0-5
Module Efficiency(%)	21.25	21.48	21.71	21.94	22.17
Voltage Mpp-Vmpp(V)	34.72	34.94	35.15	35.37	35.58
Current Mpp-Impp(A)	13.25	13.31	13.37	13.43	13.49
Voltage Open Circuit-Voc(V)	41.94	42.13	42.32	42.51	42.70
Short Circuit Current-Isc(A)	14.02	14.08	14.14	14.20	14.26

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

Electrical Properties(NOCT*)

Power Output(Wp)	348	352	355	359	363
Voltage Mpp-Vmpp(V)	32.80	32.99	33.08	33.27	33.46
Current Mpp-Impp(A)	10.61	10.67	10.73	10.79	10.85
Voltage Open Circuit-Voc(V)	39.91	40.10	40.29	40.48	40.67
Short Circuit Current-Isc(A)	11.31	11.36	11.41	11.46	11.51

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

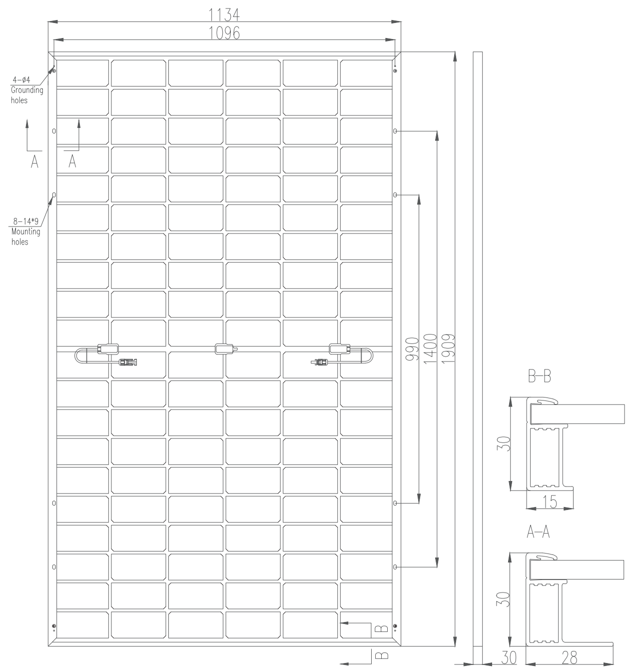
With Different Power Generation Gain (regarding 470W as an example)

Power Gain (%)	Power Output (Wp)	Voltage Mpp-Vmpp (V)	Current Mpp-Impp (A)	Voltage Open Circuit-Voc (V)	Short Circuit Current-Isc (A)
10	517	35.15	14.71	42.32	15.55
15	541	35.15	15.38	42.32	16.26
20	564	35.15	16.04	42.32	16.97
25	588	35.15	16.71	42.32	17.68
30	611	35.15	17.38	42.32	18.38

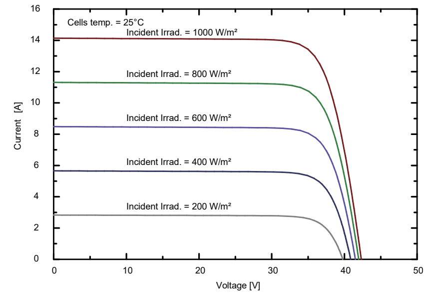
Packaging Configuration

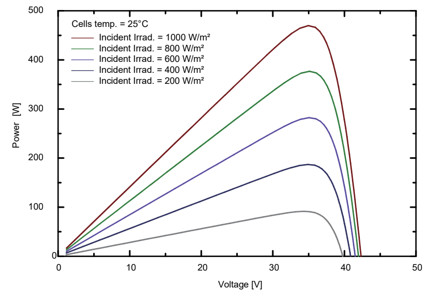
Packing Type	40'HQ
Piece/Pallet	36
Piece/Container	864

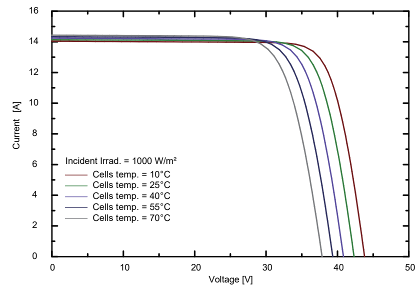
Engineering Drawing (mm)



Characteristic Curves(470W)







Mechanical Properties

Cell Size	182mm*91mm
Number of Cells	120 [2 x (10 x 6)]
Module Dimension	1909*1134*30mm
Weight	27kg
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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