

# Aurora Pro

## N-Type

S8-132NT 510~530W

Half-cell Mono Module



### 530W

Maximum Power Output

### 22.32%

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



#### High Power Output

- Better light trapping and current collection to improve module power output and reliability



#### 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

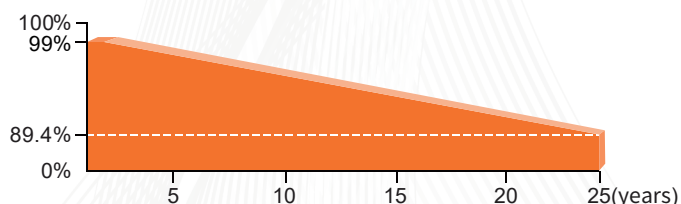
- Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal)



#### Withstanding Harsh Environment

- Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline.

#### Linear Performance Warranty



12 Years Product Warranty on Materials and Workmanship

25 Years Linear Performance Warranty

0.40% Subsequent Annual Degradation

# Aurora Pro

RS510~530S8-132NT

## Electrical Properties(STC\*)

Power Output(Wp)	510	515	520	525	530
Max Power Tolerance(W)	0-5	0-5	0-5	0-5	0-5
Module Efficiency(%)	21.48	21.69	21.90	22.11	22.32
Voltage Mpp-Vmpp(V)	38.43	38.63	38.83	39.03	39.23
Current Mpp-Impp(A)	13.27	13.33	13.39	13.45	13.51
Voltage Open Circuit-Voc(V)	46.31	46.50	46.69	46.88	47.07
Short Circuit Current-Isc(A)	14.04	14.10	14.16	14.22	14.28

\*STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, AM 1.5

## Electrical Properties(NOCT\*)

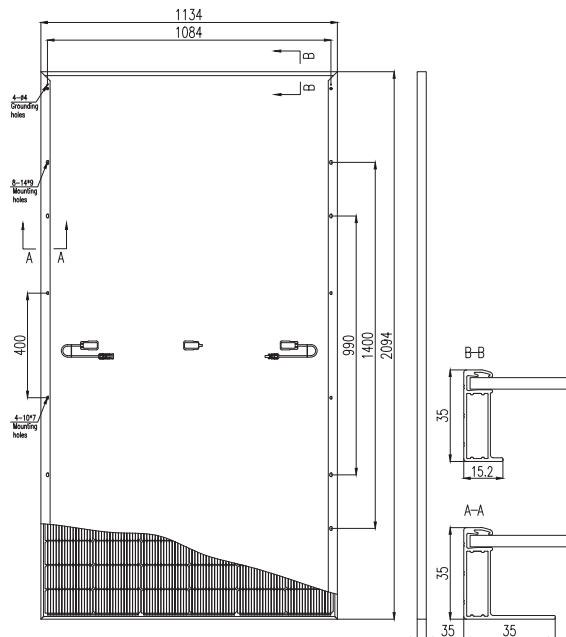
Power Output(Wp)	386	389	393	397	401
Voltage Mpp-Vmpp(V)	36.35	36.42	36.59	36.76	36.92
Current Mpp-Impp(A)	10.62	10.68	10.74	10.80	10.86
Voltage Open Circuit-Voc(V)	44.10	44.29	44.48	44.67	44.86
Short Circuit Current-Isc(A)	11.32	11.37	11.42	11.47	11.51

\*NOCT: Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s

## Packaging Configuration

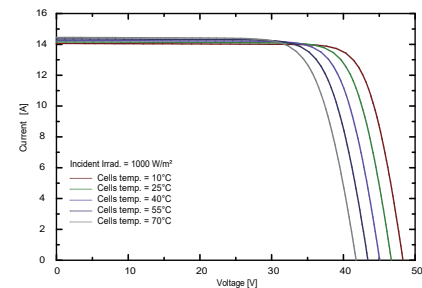
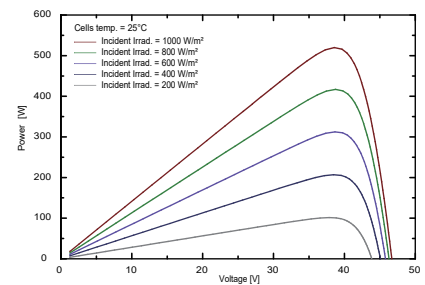
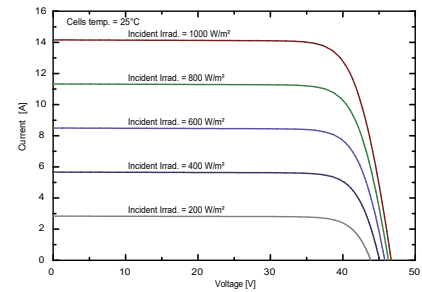
Packing Type	40'HQ
Piece/Pallet	31
Piece/Container	682

## Engineering Drawing (mm)



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

## Characteristic Curves(520W)



## Mechanical Properties

Cell Size	182mm*91mm
Number of Cells	132 [ 2 x ( 11 x 6 ) ]
Module Dimension	2094*1134*35mm
Weight	25 kg
Front Glass	High transmission glass 3.2mm
Frame	Anodized Aluminium Alloy
Junction Box	IP68 (3 diodes)
Cable Length	TUV 1x4.0mm <sup>2</sup> , (+):300mm/ (-):200mm or Customized length

## Operating Properties

Operating Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	25A
Power Tolerance	0~+5W

## 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