

Aurora Pro

N-Type

S8-144NT 580~595W

Half-cell Mono Module



595W

Maximum Power Output

22.49%

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

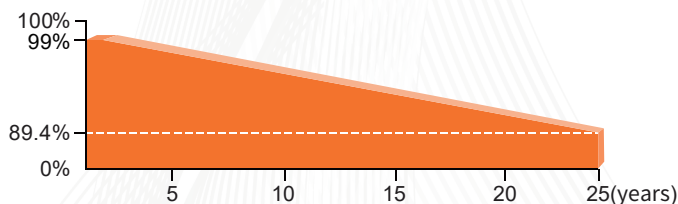
- Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal)



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

RS580~595S8-144NT

Electrical Properties(STC*)

Power Output(Wp)	580	585	590	595
Max Power Tolerance(W)	0-5	0-5	0-5	0-5
Module Efficiency(%)	21.92	22.11	22.30	22.49
Voltage Mpp-Vmpp(V)	43.22	43.37	43.51	43.65
Current Mpp-Impp(A)	13.42	13.49	13.56	13.63
Voltage Open Circuit-Voc(V)	52.21	52.41	52.61	52.81
Short Circuit Current-Isc(A)	14.02	14.09	14.16	14.23

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

Electrical Properties(NOCT*)

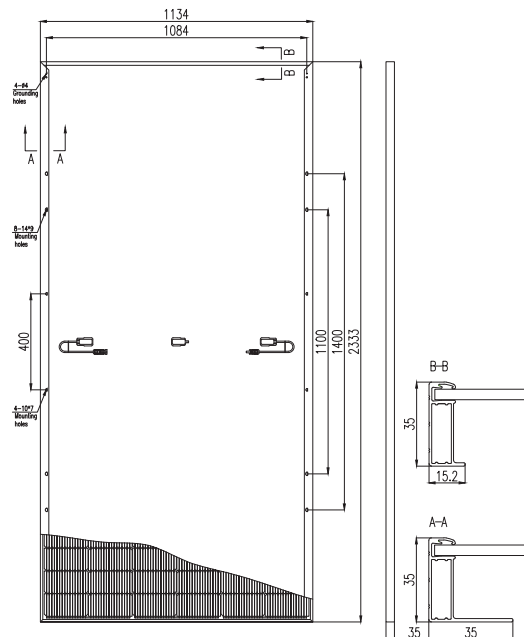
Power Output(Wp)	436	440	444	447
Voltage Mpp-Vmpp(V)	40.22	40.37	40.51	40.60
Current Mpp-Impp(A)	10.84	10.90	10.96	11.01
Voltage Open Circuit-Voc(V)	49.60	49.79	49.98	50.17
Short Circuit Current-Isc(A)	11.26	11.31	11.37	11.43

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

Packaging Configuration

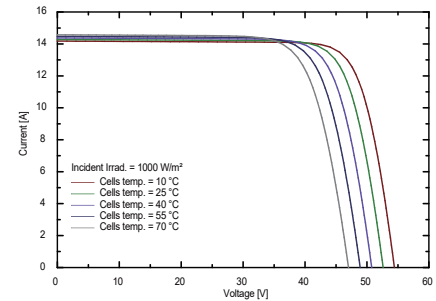
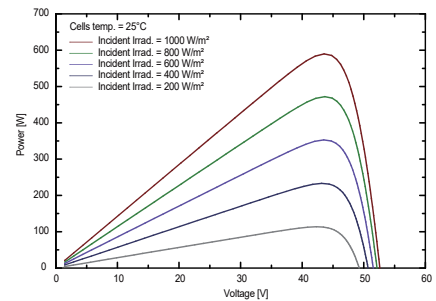
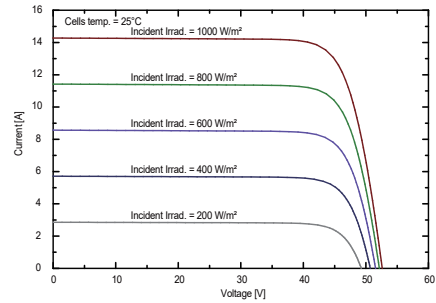
Packing Type	40'HQ
Piece/Pallet	31
Piece/Container	620

Engineering Drawing (mm)



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

Characteristic Curves(590W)



Mechanical Properties

Number of Cells	144 [2 x (12x 6)]
Module Dimension	2333*1134*35mm
Weight	27 kg
Front Glass	High transmission glass 3.2mm
Frame	Anodized Aluminium Alloy
Junction Box	IP68 (3 diodes)
Cable Length	TUV 1x4.0mm ² , (+):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