

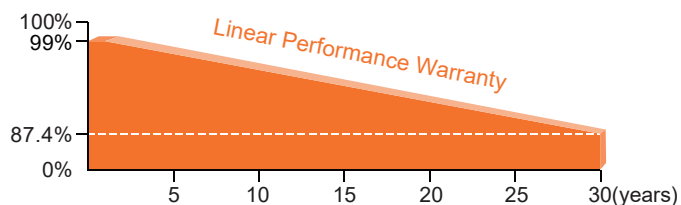
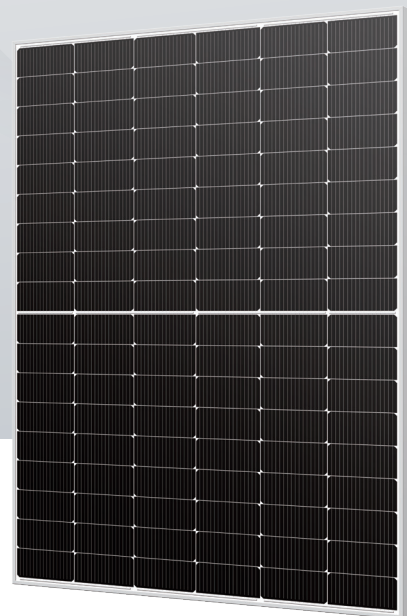
450~465W

RS450~465S8-108GANT

Bifacial Dual Glass

Mono Module

Made in China



12 Years Product Warranty on Materials and Workmanship

30 Years Linear Performance Warranty

0.40% Subsequent Annual Degradation

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



PID Resistance

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



Outstanding Low Light Performance

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



Mechanical load

- Designed mechanical load and safety factor:
Positive: 1600Pa, 1.5/Negative: 1600Pa, 1.5



Zero LID (Light Induced Degradation)

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



Lower LCOE

- Higher bifaciality, higher power output and lower BOS cost



Better Temperature Coefficient

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



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RS450S8-108GANT RS455S8-108GANT

RS460S8-108GANT RS465S8-108GANT

Electrical Properties(STC*)

Max Power(W)	450	455	460	465
Max Power Tolerance	±3%	±3%	±3%	±3%
Module Efficiency(%)	22.05	22.29	22.54	22.78
Voltage Mpp-Vmpp(V)	33.06	33.26	33.45	33.65
Current Mpp-Impp(A)	13.61	13.68	13.75	13.82
Voltage Open Circuit-Voc(V)	39.73±3%	39.93±3%	40.13±3%	40.33±3%
Short Circuit Current-Isc(A)	14.22±4%	14.29±4%	14.36±4%	14.43±4%

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

BNPI condition

Max Power (W)	491±3%	496±3%	501±3%	507±3%
Voltage Open Circuit-Voc(V)	39.73±3%	39.93±3%	40.13±3%	40.33±3%
Short Circuit Current-Isc(A)	15.50±4%	15.58±4%	15.65±4%	15.73±4%

bifaciality coefficient

φPmax	81±3%	81±3%	81±3%	81±3%
φVoc	99±3%	99±3%	99±3%	99±3%
φIsc	80±4%	80±4%	80±4%	80±4%

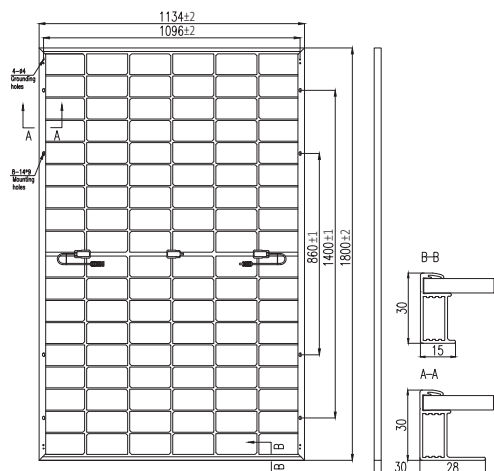
With Different Power Generation Gain (regarding 465W as an example)

Power Gain (%)	Power Output (Wp)	Voltage Mpp-Vmpp (V)	Current Mpp-Impp (A)	Voltage Open Circuit-Voc (V)	Short Circuit Current-Isc (A)
10	512	33.65	15.20	40.33	15.87
15	535	33.65	15.89	40.33	16.59
20	558	33.65	16.58	40.33	17.32
25	581	33.65	17.28	40.33	18.04
30	605	33.65	17.97	40.33	18.76

Packaging Configuration

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

Engineering Drawing (mm)



Mechanical Properties

Number of Cells	108 [2 x (9 x 6)]
Module Dimension	1800*1134*30mm
Weight	22.5kg
Front Glass	1.6mm, Anti-Reflection Coating
Rear Glass	1.6mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Manufacturer	Suzhou XTONG Photovoltaic Technologies Co.,Ltd.
Connector	Type: PV-XT101.2
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	30A
Power Tolerance	0~+5W
Fire Safety Class	Class C

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

Characteristic Curves(465W)

