

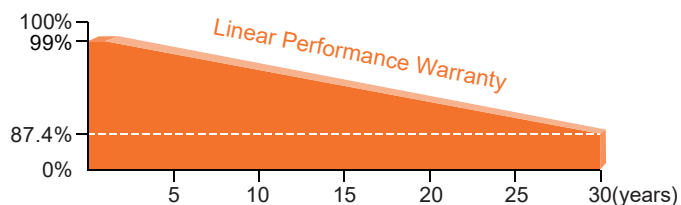
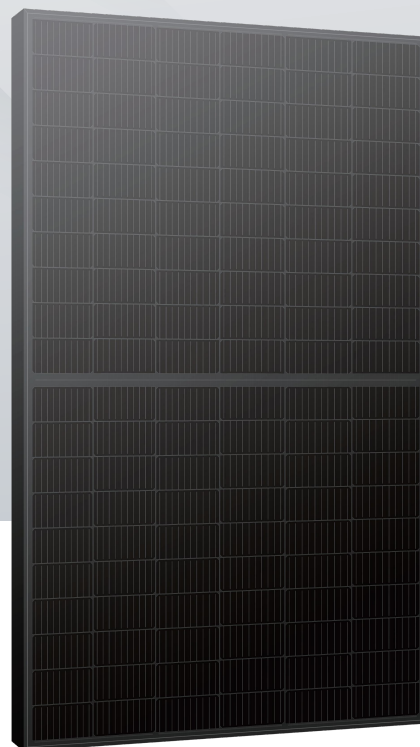
# 500~520W

**RS500~520S8B-120GANT**

**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

RS500S8B-120GANT RS505S8B-120GANT RS510S8B-120GANT

RS515S8B-120GANT RS520S8B-120GANT

### Electrical Properties(STC\*)

|                              |          |          |          |          |          |
|------------------------------|----------|----------|----------|----------|----------|
| Max Power(W)                 | 500      | 505      | 510      | 515      | 520      |
| Max Power Tolerance          | ±3%      | ±3%      | ±3%      | ±3%      | ±3%      |
| Module Efficiency(%)         | 22.18    | 22.40    | 22.62    | 22.84    | 23.07    |
| Voltage Mpp-Vmpp(V)          | 36.66    | 36.83    | 37.01    | 37.18    | 37.36    |
| Current Mpp-Impp(A)          | 13.64    | 13.71    | 13.78    | 13.85    | 13.92    |
| Voltage Open Circuit-Voc(V)  | 44.13±3% | 44.33±3% | 44.53±3% | 44.73±3% | 44.93±3% |
| Short Circuit Current-Isc(A) | 14.26±4% | 14.33±4% | 14.40±4% | 14.47±4% | 14.54±4% |

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

### BNPI condition

|                              |          |          |          |          |          |
|------------------------------|----------|----------|----------|----------|----------|
| Max Power ( W )              | 545±3%   | 550±3%   | 556±3%   | 561±3%   | 567±3%   |
| Voltage Open Circuit-Voc(V)  | 44.13±3% | 44.33±3% | 44.53±3% | 44.73±3% | 44.93±3% |
| Short Circuit Current-Isc(A) | 15.54±4% | 15.62±4% | 15.00±4% | 15.77±4% | 15.85±4% |

### bifaciality coefficient

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

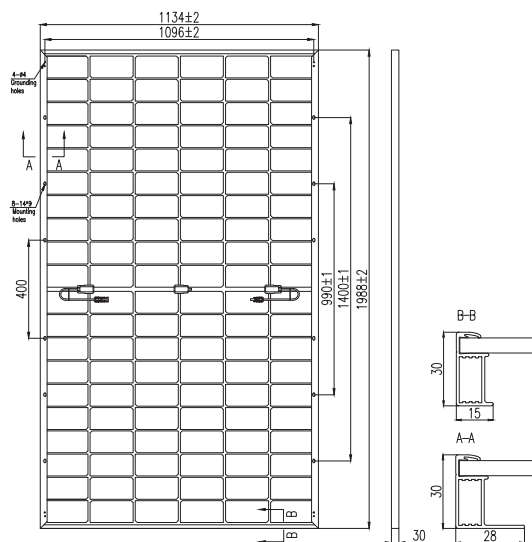
### With Different Power Generation Gain (regarding 515W as an example)

| Power Gain (%) | Power Output (Wp) | Voltage Mpp-Vmpp (V) | Current Mpp-Impp (A) | Voltage Open Circuit-Voc (V) | Short Circuit Current-Isc (A) |
|----------------|-------------------|----------------------|----------------------|------------------------------|-------------------------------|
| 10             | 567               | 37.18                | 15.25                | 44.73                        | 15.92                         |
| 15             | 592               | 37.18                | 15.95                | 44.73                        | 16.64                         |
| 20             | 618               | 37.18                | 16.62                | 44.73                        | 17.36                         |
| 25             | 644               | 37.18                | 17.32                | 44.73                        | 18.09                         |
| 30             | 670               | 37.18                | 18.02                | 44.73                        | 18.81                         |

### Packaging Configuration

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

### Engineering Drawing (mm)



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

### Mechanical Properties

|                  |                                                                         |
|------------------|-------------------------------------------------------------------------|
| Number of Cells  | 120 [ 2 x ( 10 x 6 ) ]                                                  |
| Module Dimension | 1988*1134*30mm                                                          |
| Weight           | 23.5kg                                                                  |
| 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 <sup>2</sup> , (+):300mm/<br>(-):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(515W)

