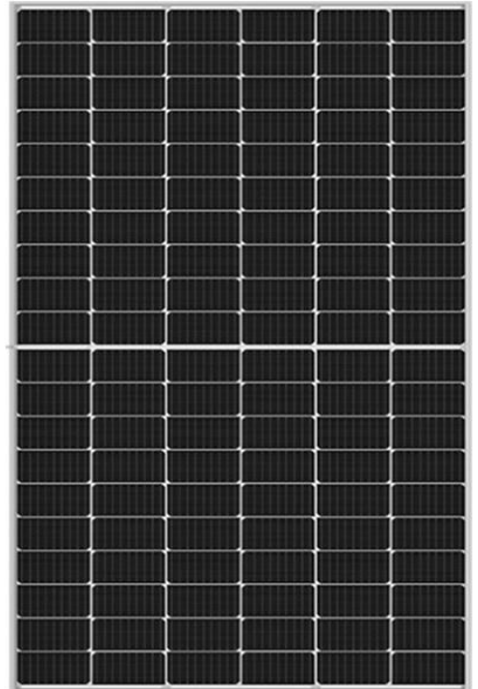


## STM-XXX/120-S2 9BB Series 365W-390W

**25**  
Linear power  
output warranty

**12**  
years

Guarantee on  
product  
Material and



### 9 Busbar Solar Cell

9 Busbar solar cell adopts new technology to improve the efficiency of modules, offers a better aesthetic appearance, making it perfect for rooftop installation



### High Efficiency

Higher module conversion efficiency (up to 20%) benefit from half cell structure (low resistance characteristic).



### PID Resistance

Excellent Anti-PID performance guarantee limited power degradation for mass production.



### Low-light Performance

Advanced glass and cell surface textured design ensure excellent performance in low-light environment.



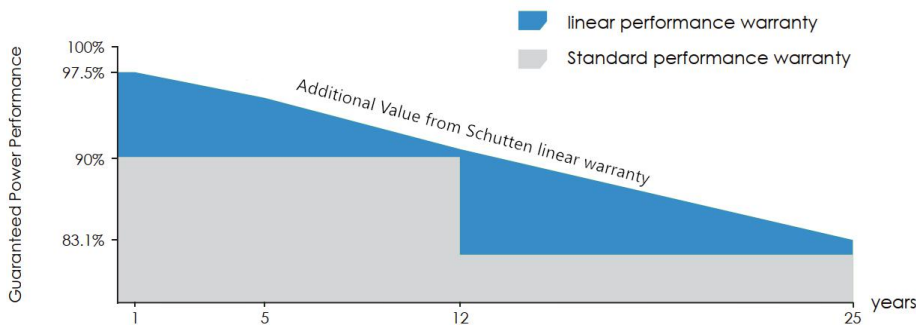
### Severe Weather Resilience

Certified to withstand: Wind load (2400 pascal) and snow load (5400 pascal).



### Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance certified by TUV NORD.



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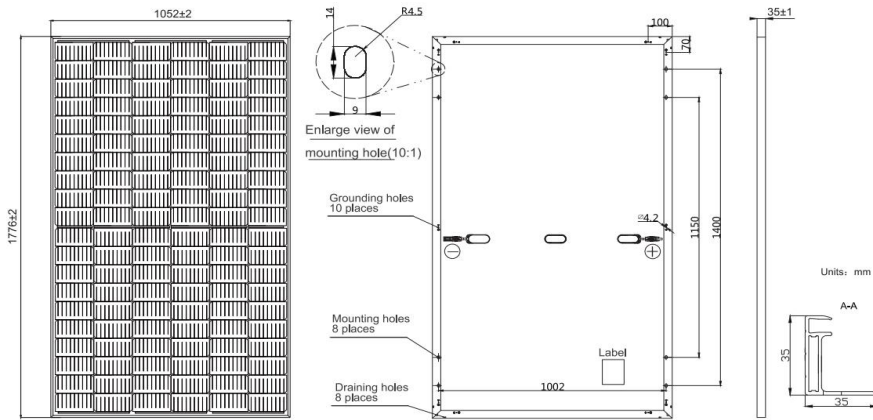
### Electrical Characteristics at STC

| Module Type                                      | STM-365/120-S2                    | STM-370/120-S2 | STM-375/120-S2          | STM-380/120-S2 | STM-385/120-S2 | STM-390/120-S2 |
|--|-----------------------------------|----------------|-------------------------|----------------|----------------|----------------|
| Maximum Power (Pmax)                             | 365                               | 370            | 375                     | 380            | 385            | 390            |
| Open-circuit Voltage (Voc)                       | 41.13                             | 41.30          | 41.45                   | 41.62          | 41.78          | 41.94          |
| Maximum Power Voltage (Vmp)                      | 33.96                             | 34.23          | 34.50                   | 34.77          | 35.04          | 35.33          |
| Short-circuit Current (ISC)                      | 11.30                             | 11.35          | 11.41                   | 11.47          | 11.53          | 11.58          |
| Maximum Power Current (Imp)                      | 10.75                             | 10.81          | 10.87                   | 10.93          | 10.99          | 11.04          |
| Module Efficiency STC (%)                        | 19.50                             | 19.80          | 20.10                   | 20.30          | 20.60          | 20.90          |
| Power Tolerance                                  | 0~+5W                             |                |                         |                |                |                |
| Temperature Coefficient of Isc ( $\alpha$ -Isc)  | +0.044%/°C                        |                |                         |                |                |                |
| Temperature Coefficient of Voc ( $\beta$ -Voc)   | -0.272%/°C                        |                |                         |                |                |                |
| Temperature Coefficient of Pmax ( $\gamma$ -Pmp) | -0.350%/°C                        |                |                         |                |                |                |
| STC  | ☀ Irradiance 1000W/m <sup>2</sup> |                | 🌡 Cell Temperature 25°C |                | ☁ AM=1.5       |                |

### Electrical Characteristics at NOTC

| Module Type                 | STM-365/120-S2                   | STM-370/120-S2 | STM-375/120-S2          | STM-380/120-S2 | STM-385/120-S2 | STM-390/120-S2 |
|-----------------------------|----------------------------------|----------------|-------------------------|----------------|----------------|----------------|
| Rated Max Power (Pmax)      | 276                              | 280            | 284                     | 287            | 291            | 295            |
| Open-circuit Voltage (Voc)  | 38.41                            | 38.65          | 38.89                   | 39.14          | 39.83          | 39.63          |
| Maximum Power Voltage(Vmp)  | 32.05                            | 32.30          | 32.55                   | 32.72          | 32.96          | 33.20          |
| Short-circuit Current (Isc) | 9.15                             | 9.20           | 9.25                    | 9.30           | 9.35           | 9.40           |
| Maximum Power Current (Imp) | 8.61                             | 8.66           | 8.71                    | 8.78           | 8.83           | 8.88           |
| NOCT                        | ☀ Irradiance 800W/m <sup>2</sup> |                | 🌡 Cell Temperature 20°C |                | ☁ AM=1.5       |                |
|                             | 🌬 Wind Speed=1m/s                |                |                         |                |                |                |

### Mechanical Diagrams



Remark: customized frame color and cable length available upon request

### Operating Conditions

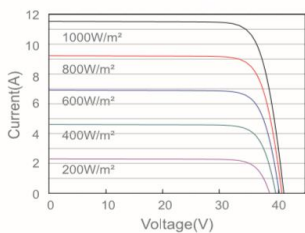
|                          |  |
|--------------------------|--|
| Cell                     | Mono   |
| No. of cells             | 120(6x20)  |
| Dimensions               | 1776±2mm x 1052±2mm x 35±1mm                           |
| Weight                   | 21kgs ± 3%   |
| Cable Cross Section Size | 4mm <sup>2</sup> (IEC)                                 |
| Junction Box             | IP67, 3 diodes   |
| Connector                | MC4  |
| Packaging Configuration  | 31 pcs/pallet, 12 pallets<br>34 pcs/pallet, 12 pallets |
|                          | 780 pcs/40ft container                                 |

### Operating Conditions

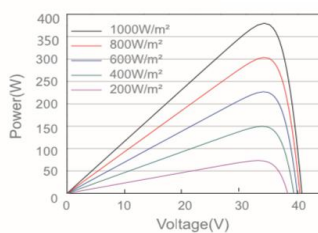
|                            |                                 |
|----------------------------|---------------------------------|
| Maximum System Voltage     | 1000/1500V DC                   |
| Operating Temperature      | -40°C ~ +85°C                   |
| Maximum Series Fuse        | 20A                             |
| Maximum Static Load, Front | 5400Pa (112lb/ft <sup>2</sup> ) |
| Maximum Static Load, Back  | 2400Pa (50lb/ft <sup>2</sup> )  |
| Safety Class               | Class II                        |

### Characteristics

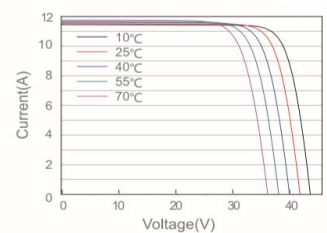
Current-Voltage Curve STM-380/120-S2



Power-Voltage Curve STM-380/120-S2



Current-Voltage Curve STM-380/120-S2



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