



CNBM



**JETION**  
SOLAR

*Visionary Green Energy*



# Dual Glass Modules Installation Manual

JX-PI-RD-003 C0 2025\_09

Please read this manual carefully before installation and retain it for future reference.

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# Introduction

Jetion solar modules are composed of crystalline silicon solar cells, high-transparency low-iron tempered glass, anti-aging EVA, flame-retardant backsheet, and anodized aluminum alloy frames. Junxin modules comply with international standards IEC 61215 and IEC 61730, certified by authoritative testing centers, and are widely used in rooftop PV systems, power stations, communication stations, marine, meteorological, transportation, and building-integrated PV applications.

We are committed to providing global customers with technical and installation support.

This manual contains critical information on installation, safety operations, and module maintenance. Read and understand all instructions before installation. Installers must adhere to this manual, local standards, building codes, and regulations. All PV system work must be performed by qualified engineers certified in mechanical and electrical requirements.

# Disclaimer

- Jetion assumes no liability for losses, damages, injuries, or costs arising from improper installation, operation, use, or maintenance.
- Jetion reserves the right to update products, specifications, or installation guidelines.



# 1 Certification Requirements

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## 1.1 IEC 61215&61730

Jetion modules are designed to meet IEC 61215 and IEC 61730 standards.

## 1.2 UL

- Electrical performance (short-circuit current, open-circuit voltage, maximum power) under standard test conditions (100 mW/cm<sup>2</sup> irradiance, AM1.5, cell temperature 25°C) is within ±10% of rated values.
- Mounting height must be ≥100 mm (3.94 in), with 115 mm (4.53 in) recommended. Other methods may affect fire ratings.
- UL-certified modules have a maximum load capacity of 50 lb/ft<sup>2</sup> (224.17 kg/m<sup>2</sup>).
- Wiring must comply with NEC standards.
- In Canada, installations must comply with CSA C22.1 and the Canadian Electrical Code.

# 2 Installation Requirements

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## 2.1 Environmental Requirements

### 2.1.1 Avoid shaded areas

Even minor shading (e.g., dust) reduces output.

### 2.1.2 Ventilation

Ensure adequate airflow to prevent overheating.

### 2.1.3 Prohibited locations

-  Near flammable gases (gas stations, tanks).
-  Extreme dust, pollution (chemical fumes, acid rain, heavy metal particles).
-  Laser radiation sources.
-  Areas prone to flooding, snow/ice accumulation, or coastal environments (install ≥500m from the ocean).

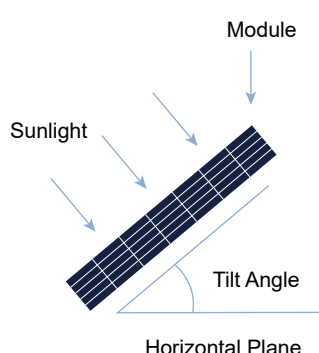
Operating temperature: -20°C ~ 40°C.

## 2.2 Module Orientation and Tilt Angle

When photovoltaic (PV) modules face the sun directly, their power output is maximized. To ensure the system generates the maximum annual energy yield, the optimal orientation and tilt angle of the PV modules must be calculated. Additionally, to avoid reduced system output, ensure all modules within the same system share identical orientation and tilt angles.

To facilitate rainwater washing away surface dust and minimize cleaning frequency, Jetion Technology recommends an installation tilt angle of  $\geq 10^\circ$ . In the Southern Hemisphere, modules should generally face north; in the Northern Hemisphere, they should face south.

For off-grid installations, Junxin modules should be connected to permanent structures, with tilt angles set to optimize winter performance. Typically, if the system generates sufficient energy in winter, its performance in other seasons will also be satisfactory. The tilt angle refers to the angle between the PV module and the horizontal plane, while the maximum output tilt angle (relative to the ground) should be determined by system designers based on site-specific factors such as terrain, wind conditions, meteorological data, and mechanical system requirements.



**Recommended Fixed Tilt Angle**

| Latitude Range           | Right Side                 |
|--------------------------|----------------------------|
| $0^\circ \sim 15^\circ$  | $15^\circ$                 |
| $15^\circ \sim 25^\circ$ | Same as latitude angle     |
| $25^\circ \sim 30^\circ$ | Latitude angle $+5^\circ$  |
| $30^\circ \sim 35^\circ$ | Latitude angle $+10^\circ$ |
| $35^\circ \sim 40^\circ$ | Latitude angle $+15^\circ$ |
| $>40^\circ$              | Latitude angle $+20^\circ$ |

Note: Actual angle may be adjusted based on installation design.

## 2.3 Material Requirements

### 2.3.1 Support structure

The component support structure must be made of wear-resistant, corrosion-resistant, and UV-resistant materials to meet structural requirements. The design of the support structure and component accessories must meet local wind and snow load-bearing requirements.

### 2.3.2 Bypass diodes

When a component is partially shaded, the shaded part forms a shadow and generates a reverse voltage internally, forcing the current from unshaded parts to flow through the shaded area. When the diode is connected in parallel with the cell string, the current from the unshaded part will bypass the shaded part through the diode, reducing component temperature and current loss.

### 2.3.3 Anti-reverse charge diodes

In systems using batteries, anti-reverse charge diodes are typically placed between the battery and component output to prevent battery discharge at night and on rainy days.

Diodes used for anti-reverse charging must meet the following requirements:

The rated average forward current [IF(AV)] at the component's highest operating temperature must exceed the maximum system current.

The rated repetitive peak reverse voltage [VRRM] at the component's lowest operating temperature must exceed the maximum system voltage.

(IEC: Vmax=1000V or 1500V; UL: Vmax=1000V)

### 2.3.4 Batteries

When charging a battery with photovoltaic components, the battery must be installed in a way that protects system performance and user safety. Batteries should be away from main pedestrian and animal traffic. Battery installation locations should avoid sunlight, rain, snow, and debris, and have good ventilation. Most batteries release hydrogen gas during charging, which is explosive. Do not ignite matches or create sparks near battery banks. If installing batteries outdoors, place them in specially designed insulated and ventilated battery boxes.

### 2.3.5 Cables and other components

To ensure all components exposed to sunlight meet the requirements for system maximum voltage, current, humidity, temperature, etc., we recommend that all cables and electrical connection devices meet the corresponding national electrical codes. Only cables with one terminal are allowed. The cable area connected to the connector should be 4-6 mm<sup>2</sup>, with a working temperature of -40°C to 90°C. Component connectors should match the original female or male connectors from the same supplier at the installation site, which have the same system mechanical properties.

**Junction Box and Connector Supplier Model Reference Table**

| Photovoltaic System Connector Supplier                     | Connector Type                                             | Junction Box Type |
|------------------------------------------------------------|------------------------------------------------------------|-------------------|
| Zhejiang Zhonghuan Saite Photovoltaic Technology Co., Ltd. | PV-ZH202B                                                  | PV-ZH011C-5       |
| Zhejiang Jiaming Hehe Photovoltaic Technology Co., Ltd.    | PV-JM608                                                   | JM07w,            |
| Zhejiang Renhe Photovoltaic Technology Co., Ltd.           | RHC2xyzu                                                   |                   |
| Staubli Group                                              | PV-KST4-EVO2/XY-UR (male),<br>PV-KBT4-EVO2/XY-UR (female), | FT50xy            |
|                                                            | PV-KST4/xy-UR (male)                                       |                   |
|                                                            | PV-KBT4/xy-UR (female)                                     |                   |

## 2.4 Requirements for Different Installation Methods

Under normal circumstances, components can withstand a wind load of 2400Pa on the back and a snow load of 5400Pa on the front (test load), as well as hail impacts with a diameter of 25mm and a speed of 82km/h.

### 2.4.1 Ground installation

Choose an appropriate system installation height to prevent the lowest edge of the component from being covered by snow for extended periods in high-snowfall areas. Also, ensure the lowest part of the component is high enough to avoid being covered by windblown sand.

### 2.4.2 Roof installation

When installing components on a roof or building, ensure they are securely fastened to prevent falling due to wind or snow pressure. When components are installed parallel to the building walls or roof surface via supports, the frame and walls or roof surface should be kept clean to avoid line damage and facilitate air circulation behind the component. The height should be at least 100 mm (3.94 inches), with a recommended height of 115 mm (4.53 inches). Fire rating: Class C. When installing components on a roof, the roof must be covered with fire-resistant material matching this rating, and there must be sufficient ventilation between the component back and installation surface. Also, leave a safe working area between the roof edge and the solar array edge. For ground residential installations, follow local regulations.

### 2.4.3 Column installation

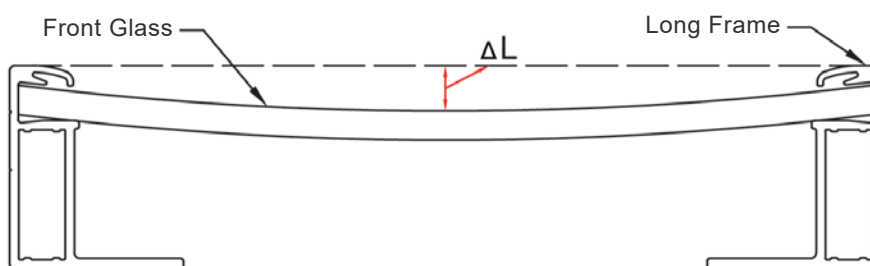
When installing components on columns, choose appropriate columns and structures to withstand expected wind forces in the area.

### 3 Installation Methods

To prevent bending, vibration, mechanical stress, or curvature, modules should be installed on a flat contact surface. The minimum distance between installed modules should not be less than 20mm. All installation points provided must be used to avoid direct contact between glass and metal (e.g., installation rails).

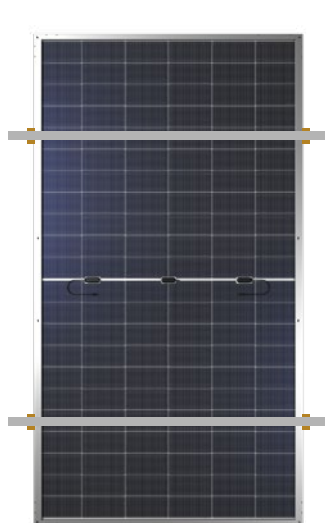
Note: Under static conditions, the glass surface of photovoltaic modules may experience non-uniform deformation due to its own weight, with the maximum deflection occurring in the geometric center area. When using bolt mounting, clamp mounting, or tracker mounting systems, the allowable deflection range ( $\Delta L$  in the figure below) should be 0–20 mm in the absence of external loads (e.g., wind or snow loads).

Important: During storage, transportation, and installation, applying excessive pressure on the module surface is strictly prohibited, as improper external force may cause glass panel deformation.



#### Type 1 Clamp Installation

Clamps must overlap the front frame of the module by 8mm to 12mm. The minimum thickness of the clamp must be  $\geq 4\text{mm}$ , and the length must be  $\geq 50\text{mm}$ . The contact width between the frame and the rail should be at least 10mm. To secure the module to the mounting bracket, at least 4 clamps must be used, with a tightening torque of 16~20N·m. Clamps should not distort the frame.

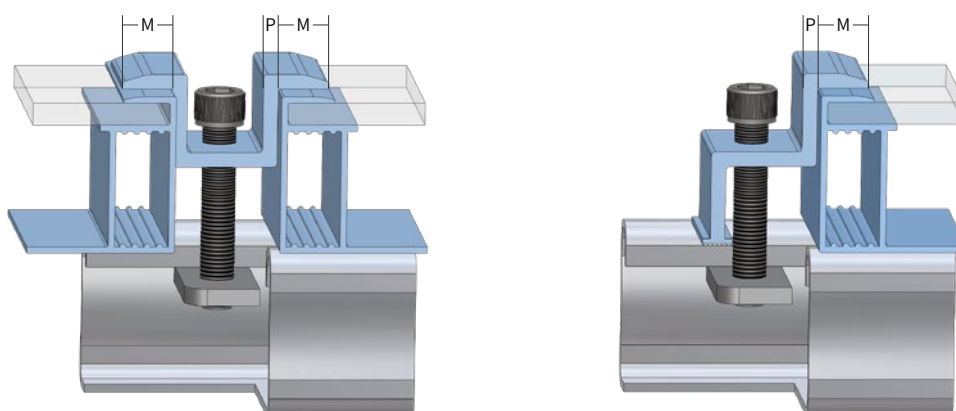


①



②

Installation position:  
 $(1/4L-50) \leq S \leq (1/4L+50)$   
 2 edge clamps per module  
 (ends) & 2 middle clamps  
 per module (middle of the  
 module)



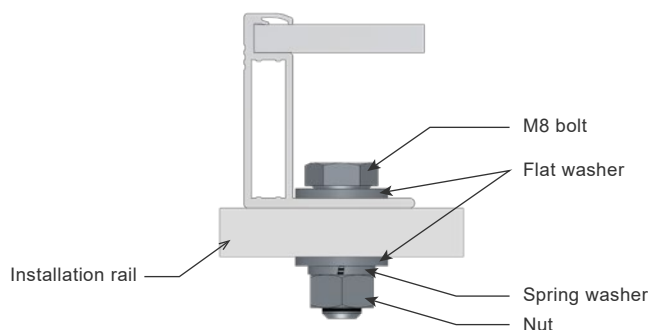
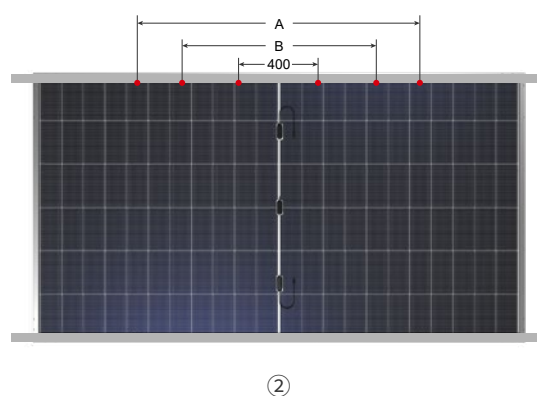
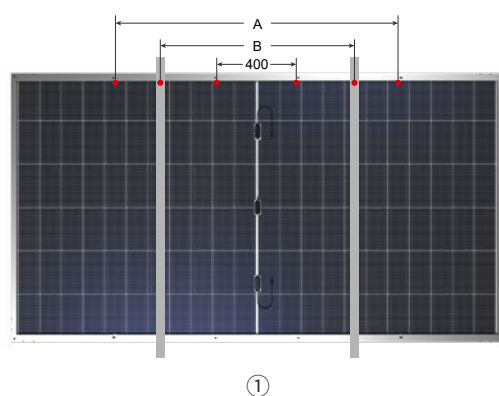
Dimension "M" represents the overlap dimension between the clamp and the front frame of the module;

Dimension "P" represents the thickness of the clamp;

$8\text{mm} \leq M \leq 12\text{mm}$ ;  $P \geq 4\text{mm}$ ; Clamp length  $\geq 50\text{mm}$ ; Bolts include: bolts, spring washers, flat washers, nuts.

## Type 2 Bolt Installation

Secure each module's frame to the support structure through at least 4 installation holes (corresponding to installation rails 2 and 3). For larger wind and snow loads, secure 8 holes (corresponding to installation rails 1 to 4). The module frame must be fixed to the installation rail using M8 corrosion-resistant screws with spring washers and flat washers. The recommended torque is 15~20 N·m. Please use existing installation holes for installation instead of drilling additional holes (drilling behavior is not conducive to the reliability and warranty of the module). Please use corrosion-resistant installation and connection materials. Installation diagrams and instructions are as follows:



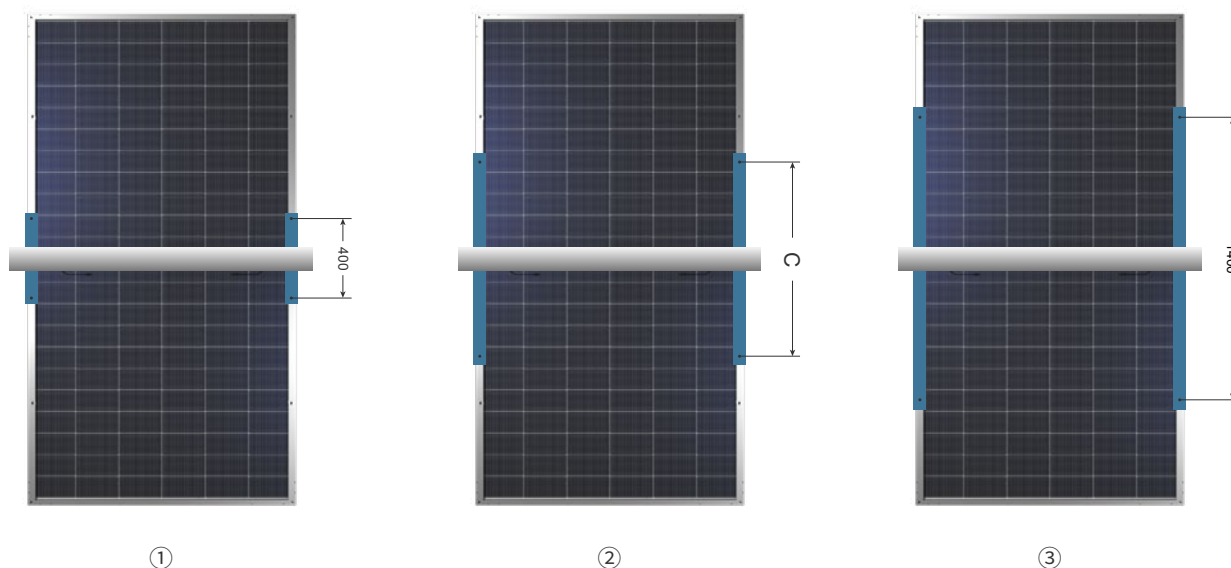
Secure the module at each installation location with M8 bolts, flat washers, spring washers, and nuts, and tighten to a torque of 16~20 Newton meters (140~180 pounds/inch).

### Type 1 and Type 2 Corresponding Test Loads

| Module Type  |                             |                            | Front/<br>Back | Clamp Installation                        |                                      | Bolt Hole Installation              |         |                                |         |
|--------------|-----------------------------|----------------------------|----------------|-------------------------------------------|--------------------------------------|-------------------------------------|---------|--------------------------------|---------|
|              |                             |                            |                | Long Side<br>Perpendicular<br>to Purlin ① | Long Side<br>Parallel<br>to Purlin ② | Long Side Perpendicular to Purlin ① |         | Long Side Parallel to Purlin ② |         |
|              |                             |                            |                |                                           |                                      | Hole A                              | Hole B  | Hole A                         | Hole B  |
| 60<br>cell   | JTxxxSXh(B)                 | xxx:<br>295-330            | Front          | 5400 pa                                   | 5400 pa                              | 5400 pa                             | 5400 pa | 5400 pa                        | 5400 pa |
|              |                             |                            | Back           | 2400 pa                                   | 2400 pa                              | 2400 pa                             | 2400 pa | 2400 pa                        | 2400 pa |
| 60×2<br>cell | JTxxxSIh                    | xxx:<br>300-325            | Front          | 5400 pa                                   | /                                    | 5400 pa                             | 5400 pa | /                              | /       |
|              |                             |                            | Back           | 2400 pa                                   | /                                    | 2400 pa                             | 2400 pa | /                              | /       |
|              |                             | xxx:<br>355-370            | Front          | 5400 pa                                   | /                                    | 5400 pa                             | 5400 pa | /                              | /       |
|              |                             |                            | Back           | 2400 pa                                   | /                                    | 2400 pa                             | 2400 pa | /                              | /       |
|              | JTxxxSIh(B)/<br>JTxxxSIh(B) | xxx:<br>355-380            | Front          | 5400 pa                                   | 5400 pa                              | 5400 pa                             | 5400 pa | 5400 pa                        | 5400 pa |
|              |                             |                            | Back           | 2400 pa                                   | 2400 pa                              | 2400 pa                             | 2400 pa | 2400 pa                        | 2400 pa |
|              |                             | xxx:<br>430-460            | Front          | 5400 pa                                   | 3600 pa                              | 5400 pa                             | 5400 pa | 3600 pa                        | 3600 pa |
|              |                             |                            | Back           | 2400 pa                                   | 2400 pa                              | 2400 pa                             | 2400 pa | 2400 pa                        | 2400 pa |
|              |                             | xxx:<br>460-480            | Front          | 5400 pa                                   | 3600 pa                              | 5400 pa                             | 5400 pa | 3600 pa                        | 3600 pa |
|              |                             |                            | Back           | 2400 pa                                   | 2400 pa                              | 2400 pa                             | 2400 pa | 2400 pa                        | 2400 pa |
| 72<br>cell   | JTxxxSTh(B)                 | xxx:<br>350-395            | Front          | 5400 pa                                   | 5400 pa                              | 5400 pa                             | 5400 pa | 5400 pa                        | 5400 pa |
|              |                             |                            | Back           | 2400 pa                                   | 2400 pa                              | 2400 pa                             | 2400 pa | 2400 pa                        | 2400 pa |
| 72×2<br>cell | JTxxxSSh                    | xxx:<br>360-390            | Front          | 5400 pa                                   | /                                    | 5400 pa                             | 5400 pa | /                              | /       |
|              |                             |                            | Back           | 2400 pa                                   | /                                    | 2400 pa                             | 2400 pa | /                              | /       |
|              |                             | xxx:<br>430-445            | Front          | 5400 pa                                   | /                                    | 5400 pa                             | 5400 pa | /                              | /       |
|              |                             |                            | Back           | 2400 pa                                   | /                                    | 2400 pa                             | 2400 pa | /                              | /       |
|              | JTxxxSSh(B)/<br>JTxxxSSh(B) | xxx:<br>430-455            | Front          | 5400 pa                                   | 5400 pa                              | 5400 pa                             | 5400 pa | 5400 pa                        | 5400 pa |
|              |                             |                            | Back           | 2400 pa                                   | 2400 pa                              | 2400 pa                             | 2400 pa | 2400 pa                        | 2400 pa |
|              |                             | xxx:<br>520-555            | Front          | 5400 pa                                   | 3600 pa                              | 5400 pa                             | 3600 pa | 3600 pa                        | 3600 pa |
|              |                             |                            | Back           | 2400 pa                                   | 2400 pa                              | 2400 pa                             | 2400 pa | 2000 pa                        | 2000 pa |
|              |                             | xxx:<br>570-590            | Front          | 5400 pa                                   | 3600 pa                              | 5400 pa                             | 3600 pa | 3600 pa                        | 3600 pa |
|              |                             |                            | Back           | 2400 pa                                   | 2400 pa                              | 2400 pa                             | 2400 pa | 2000 pa                        | 2000 pa |
| 78×2<br>cell | JTxxxSRT(B)                 | xxx:<br>610-630            | Front          | 5400 pa                                   | /                                    | 3600 pa                             | 5400 pa | /                              | /       |
|              |                             |                            | Back           | 2400 pa                                   | /                                    | 2400 pa                             | 2400 pa | /                              | /       |
| 54×2<br>cell | JTxxxSJh(B)/<br>JTxxxSJt(B) | xxx:<br>385-415            | Front          | 5400 pa                                   | 3600 pa                              | 5400 pa                             | 5400 pa | 3600 pa                        | 3600 pa |
|              |                             |                            | Back           | 2400 pa                                   | 2400 pa                              | 2400 pa                             | 2400 pa | 2400 pa                        | 2400 pa |
|              |                             | xxx:<br>410-430            | Front          | 5400 pa                                   | 3600 pa                              | 5400 pa                             | 5400 pa | 3600 pa                        | 3600 pa |
|              |                             |                            | Back           | 2400 pa                                   | 2400 pa                              | 2400 pa                             | 2400 pa | 2400 pa                        | 2400 pa |
| 66×2<br>cell | JTxxxSLh(B)/<br>JTxxxSLt(B) | xxx:<br>475-505            | Front          | 5400 pa                                   | 3600 pa                              | 5400 pa                             | 5400 pa | 3600 pa                        | 3600 pa |
|              |                             |                            | Back           | 2400 pa                                   | 2400 pa                              | 2400 pa                             | 2400 pa | 2400 pa                        | 2400 pa |
|              |                             | xxx:<br>500-535            | Front          | 5400 pa                                   | 3600 pa                              | 5400 pa                             | 5400 pa | 3600 pa                        | 3600 pa |
|              |                             |                            | Back           | 2400 pa                                   | 2400 pa                              | 2400 pa                             | 2400 pa | 2400 pa                        | 2400 pa |
|              |                             | xxx:<br>605-630            | Front          | 5400 pa                                   | /                                    | 5400 pa                             | /       | /                              | /       |
|              |                             |                            | Back           | 2400 pa                                   | /                                    | 2400 pa                             | /       | /                              | /       |
|              | JTxxxSLk(B)                 | xxx:<br>645-665<br>695-720 | Front          | 5400 pa                                   | /                                    | 5400 pa                             | /       | /                              | /       |
|              |                             |                            | Back           | 2400 pa                                   | /                                    | 2400 pa                             | /       | /                              | /       |

### Type 3 Single-axis Tracking System Installation

Clamp installation is not recommended for tracking systems. The following illustrations apply only to the installation of installation holes. To avoid contact with bracket components, the distance between the module junction box and the bracket must be greater than 60mm. Installation diagrams and instructions are as follows:



### Type 3 Corresponding Test Loads

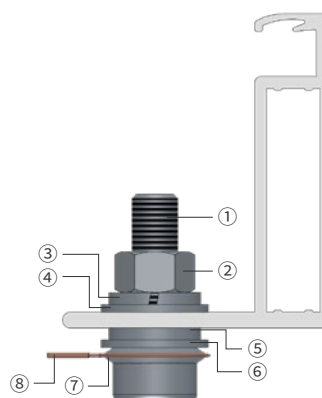
| Module Type |                             |                            | Front/Back | Bolt Installation ① | Bolt Installation ② | Bolt Installation ③ | C-hole spacing |
|-------------|-----------------------------|----------------------------|------------|---------------------|---------------------|---------------------|----------------|
| 72×2 cell   | JTxxxSSh(B)/<br>JTxxxSSt(B) | xxx:520-555<br>xxx:570-590 | Front      | 2400 pa             | 2500 pa             | /                   | 990            |
|             |                             |                            | Back       | 2000 pa             | 2000 pa             | /                   |                |
| 66×2 cell   | JTxxxSLk(B)                 | xxx:645-665<br>/695-720    | Front      | 2200 pa             | /                   | 2400 pa             | 790            |
|             |                             |                            | Back       | 2000 pa             | /                   | 2000 pa             |                |

## 4 Grounding

Modules with aluminum frames should be grounded in accordance with the following requirements; glass fiber reinforced polyurethane (FRP) frames are exempt from grounding.

- To avoid the risk of electric shock or fire, the frame of the module must be grounded before energization.
- Frame grounding should be carried out in accordance with NEC Article 250 (USA) or CEC requirements in Canada.
- To ensure proper grounding, grounding hardware should penetrate the anodized layer of the frame.
- Jetion recommends using the following components or equivalents.

- ① Stainless steel bolt
- ② Stainless steel nut
- ③ Stainless steel spring washer
- ④⑥ Stainless steel flat washer
- ⑤ Stainless steel lock washer
- ⑦ Stainless steel countersunk washer
- ⑧ Grounding wire



- Attach a separate conductor as a grounding wire to a 4mm diameter grounding hole, and install an M4 bolt, countersunk washer, lock washer, spring washer, and nut.
- Suntech PV modules can be grounded using third-party grounding devices suitable for metal frame grounding, but these devices must be installed in accordance with the specifications of the grounding device manufacturer.
- The exposed copper of the grounding wire must not come into contact with the module frame to prevent corrosion of the frame.

## 5 Wiring

### 5.1 General Requirements for Wiring

**Proper Wiring Design:** To reduce lightning strike risks, system design should avoid forming closed loops. Before the PV system begins operation, verify that the wiring is correct. If the measured open-circuit voltage ( $U_{oc}$ ) or short-circuit current ( $I_{sc}$ ) deviates from the specifications, wiring issues may exist.

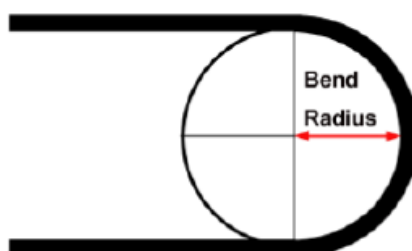
The junction box on the back of the Jetion's module is weather-resistant and compatible with standard wiring and conduit connections. Wiring methods must comply with the National Electrical Code (NEC). Each module is factory-equipped with bypass diodes and cable connectors.

Use modules with identical parameters within the same system. For series connections, all modules must have matching current ratings; for parallel connections, all modules must have matching voltage ratings. Connected modules must align with the system equipment's voltage specifications, and the combined voltage from module connections must not exceed the system's maximum allowable voltage.

When using coated modules, account for voltage variations under different temperatures (check the temperature coefficient of different modules; voltage increases as temperature decreases. For details, refer to test reports from certification bodies). The current and voltage values on the nameplate are typical; actual measured data should reference the power test checklist.

Ensure connectors are clean and sealing rings are intact. Lock positive and negative plugs securely. Poor connections may cause leakage or burnout. Junction boxes and connector housings are made of organic materials. Avoid contact with organic solvents, as this may cause deformation or cracking.

The minimum bending radius of module cables must be no less than 4 times the cable diameter.



Wrong bending method



Correct bending method

When securing cables to the mounting structure, care must be taken to avoid mechanical damage to the cables or components. Do not apply excessive pressure to the cables. For proper cable fixation, specially designed UV-resistant cable ties and clips must be used to fasten them to the structure. Although the cables are UV-resistant and waterproof, direct sunlight exposure and water immersion should still be avoided.

## 5.2 Number of Modules in Series and Parallel Connections

**Series Connection:** The total voltage of modules in series must be less than the system's maximum voltage ( $U_{max}$ ) (IEC:  $U_{max} = 1000\text{ V}$  or  $1500\text{ V}$ ). Modules in the same string should have identical current ratings, identifiable via the grading labels on the packaging header or module frame.

**Parallel Connection:** The total current of modules in parallel must be less than the system's maximum current. Ensure polarity and voltage consistency across all strings. If reverse polarity or significant voltage differences are detected, verify the configuration before connecting.

When components are connected in series and then in parallel, if there is a possibility of reverse current exceeding the maximum fuse current rating of the component, over-current protection devices of equal specifications must be used to protect the components. If the number of parallel connections is greater than or equal to 2 strings, each string of components must be equipped with an over-current protection device and a blocking diode.

Under normal circumstances, components may generate more electricity than under standard conditions. When determining the accessories for a photovoltaic power generation system, such as rated voltage, rated current, wire capacity, fuse specifications, and other parameters related to the output power of the components, the  $I_{sc}$  and  $V_{oc}$  values marked on the component nameplate should be multiplied by 1.25.

When connecting components in series, the number of components should be determined according to the formula:

$$N \times V_{oc} \times [1 - TC_{V_{oc}} \times (25 - T_{min})] \leq \text{Maximum system voltage}$$

N: Number of modules in series

V<sub>oc</sub>: Open-circuit voltage of the module

TC<sub>V<sub>oc</sub></sub>: Temperature coefficient of the module's open-circuit voltage

T<sub>min</sub>: Local minimum ambient temperature

**Parallel Connection:** The output current of the entire string of modules is equal to the sum of the currents of the individual branches or module strings. Each string of modules should be equipped with a fuse. Please refer to the regulations of the country or region. The correction factor is determined by an authorized professional electrical engineer based on relevant design standards and system simulation results. JETION do not assume responsibility for the determination of minimum fuse specifications.

$$\frac{1.5}{K_f} \cdot I_{sc} \leq I_n \leq \text{Max. Fuse Rating (Regions Complying with IEC Standards)}$$

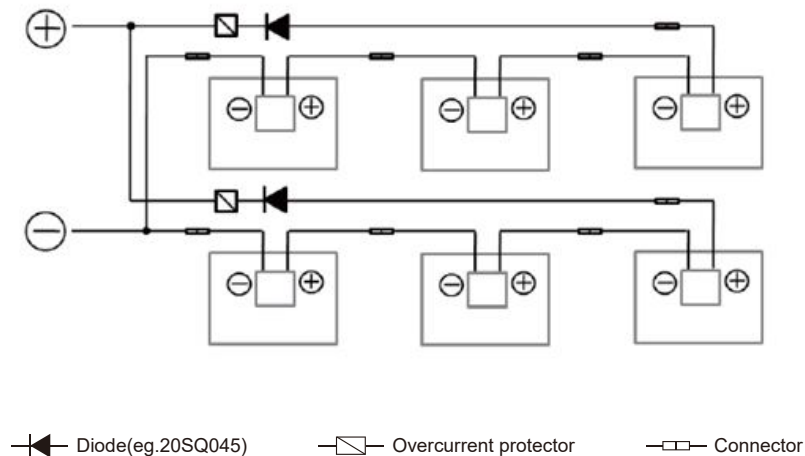
$$\frac{1.56}{K_f} \cdot I_{sc} \leq I_n \leq \text{Max. Fuse Rating (Regions Complying with NEC Standards)}$$

I<sub>n</sub>: Rated current of the fuse

I<sub>sc</sub>: Short-circuit current of the module

K<sub>f</sub>: Temperature correction factor

The rated current value is corrected for different operating ambient temperatures through the temperature correction factor (K<sub>f</sub>). Please confirm the final selection of fuse models with qualified calculation agencies and fuse manufacturers at the installation site. The maximum fuse rating provided on JETION's product sheet is for reference only.



### 5.3 Mainstream Junction Box Diode Model Reference Table

| Bypass Diode Supplier                                      | Bypass Diode Model | Junction Box Model |
|------------------------------------------------------------|--------------------|--------------------|
| Zhejiang Zhonghuan Saite Photovoltaic Technology Co., Ltd. | 35SQ045,for 25A    | PV-ZH011C-5        |
|                                                            | 40SQ045,for 30A    |                    |
| Zhejiang Jiaming Hehe Photovoltaic Technology Co., Ltd.    | RT3550 for 25A     | JM07w              |
|                                                            | RT4550 for 30A     |                    |
| Zhejiang Renhe Photovoltaic Technology Co., Ltd.           | FMK4530T for 25A   | FT50xy             |
|                                                            | MK4045 for 25A     |                    |
|                                                            | MK5045 for 30A     |                    |

### 5.4 Potential Induced Degradation (PID) Effect Protection

- To avoid the PID effect in non-PID-resistant modules, it is recommended to ground the negative pole of the inverter.
- It is recommended to ground the negative pole of the inverter to prevent PID effects in modules in hydroelectric projects.
- If the inverter does not have a negative grounding function, a PID recovery device can also be used.

### 5.5 Connector Cleaning and Protection

During module installation, connectors are easily exposed to the air and may even come into contact with the ground, causing contamination of the connectors. Organic solvents (such as electrode cleaning agents) should not be used to clean connectors, as they can cause cracking after cleaning.

Connectors are prone to corrosion in environments with the chemicals listed in the table below. Long-term exposure of connectors to environments marked with "△" should be avoided, and contact between connectors and chemicals marked with "×" is prohibited.

| No. | Chemical Type            | Tolerance Ability |
|-----|--------------------------|-------------------|
| 1   | Aliphatic Hydrocarbons   | ×/△               |
| 2   | Aromatic Hydrocarbons    | ×                 |
| 3   | Halogenated Hydrocarbons | ×                 |
| 4   | Alcohols                 | +                 |
| 5   | Phenols                  | ×                 |
| 6   | Ketones                  | ×                 |
| 7   | Esters                   | ×/△               |

| No.                                     | Chemical Type   | Tolerance Ability |
|-----------------------------------------|-----------------|-------------------|
| 8                                       | Ethers          | ×                 |
| 9                                       | Inorganic Acids | ×/△               |
| 10                                      | Organic Acids   | △                 |
| 11                                      | Oxidizing Acids | ×                 |
| 12                                      | Alkalis         | ×                 |
| 13                                      | Gasoline        | ×                 |
| Remarks: "+" Good "△" Moderate "×" Poor |                 |                   |

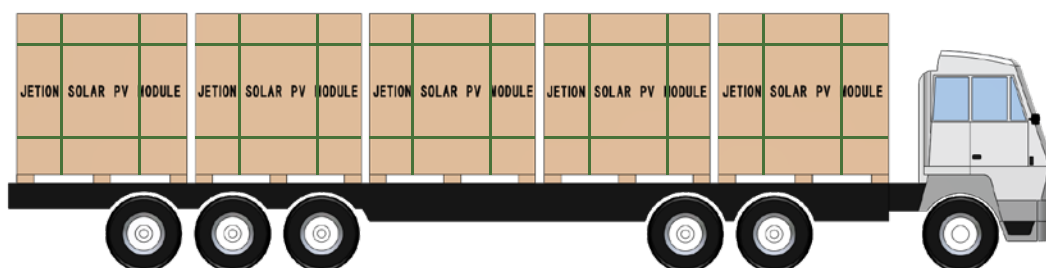
## 6 Handling and Transportation

### 6.1 Module Handling and Loading

If modules are loaded in containers, when handling modules, forklifts should lift the modules by inserting the tines from the short side of the pallet, and the length of the tines must exceed  $\frac{2}{3}$  of the pallet length; if the tine length does not meet the requirements, tine extensions must be added to increase the length. When transporting modules on flatbed trucks at the project site, modules can be lifted from the long side of the pallet, but the tine spacing must be adjusted to the maximum, and the tines should be inserted into the middle gap of the long side of the pallet. During forklift operation, a constant speed must be maintained, sudden acceleration or braking should be avoided, and lifting and lowering should be done slowly to prevent module oscillation.

### 6.2 On-site Transportation of Modules

If modules are transported on-site using flatbed trucks, they can only be stacked in a single layer for transportation as shown in the figure below.



Forklift Transportation

If modules are transported on-site using forklifts, they can only be stacked in a single layer for transportation as shown in the figure on the right.



Flatbed Truck Transportation

### 6.3 On-site Storage

Properly position arrived modules to prevent tipping and damage. Suntech modules are packaged in a vertical insertion method, with one packaging box vertically placed on each pallet; non-large-sized silicon wafer modules are typically packaged in a 2-drag module stacking method. Please separate the upper and lower pallets of the arrived modules in a timely manner. If temporary storage of modules is required, they should be placed in a dry, well-ventilated space with a storage temperature of 0-40°C and humidity of 30%-70%. Different colored current grade labels are affixed to the outer box and each module frame. Install modules of the same current grade in the same system.

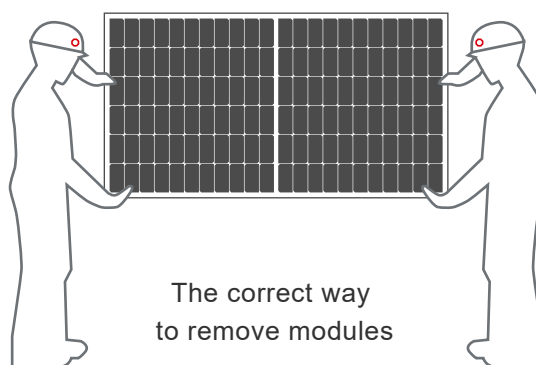
If modules are stored in non-controlled environments, the storage time should not exceed 3 months, and additional measures must be taken to prevent connector moisture or module exposure to sunlight. Also, protect the packaging from damage.

### 6.4 Unpacking

The correct method for unpacking:

Step one, remove the strapping bands and shrink wrap, and open the packaging box lid.

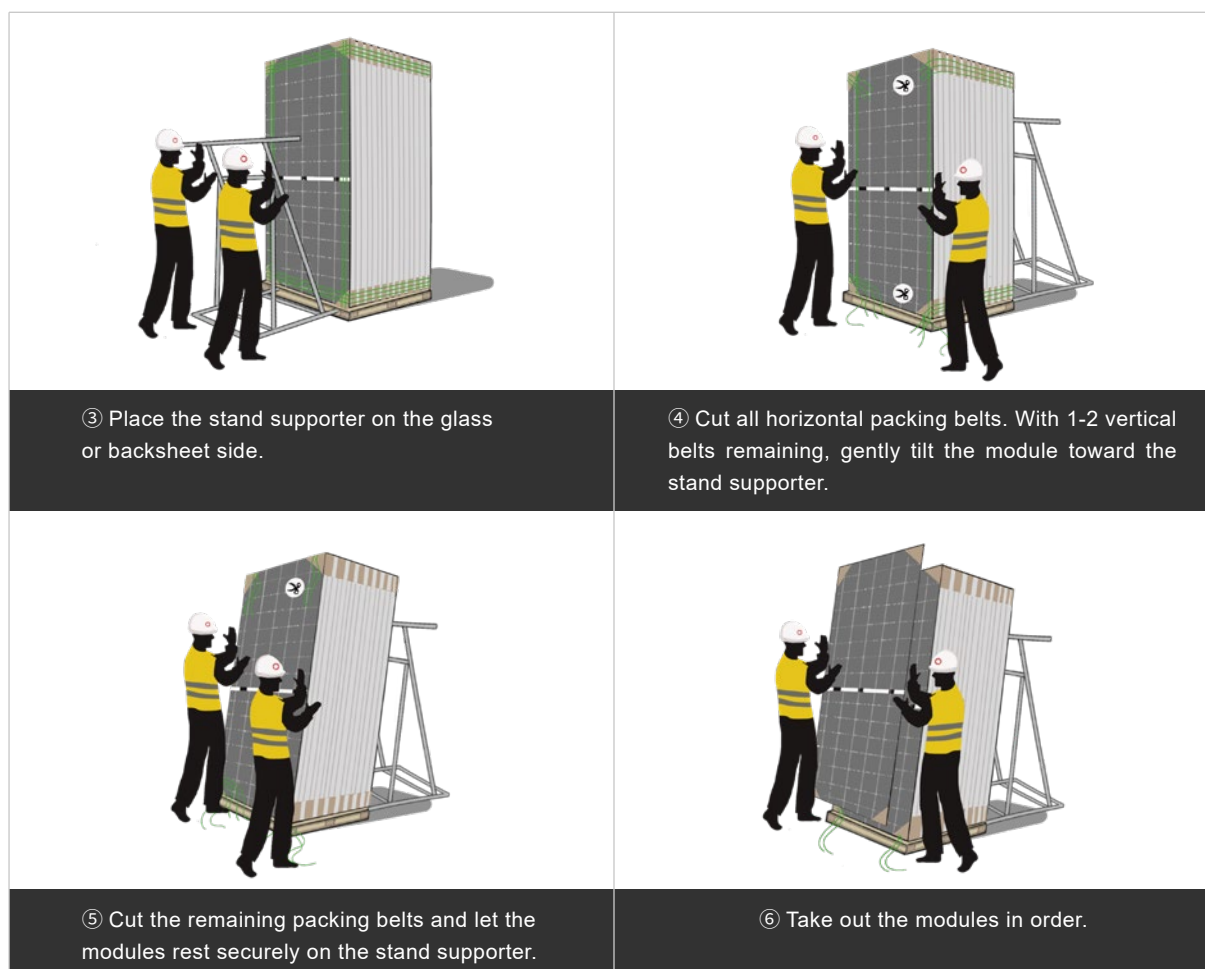
Step two, two construction personnel sequentially lift the modules vertically from the packaging box and remove them from the box. The remaining modules in the box should be leaned against the side with a backstop.



### 6.5 Unpacking for Vertical Portrait Package

If modules are not installed immediately, secure them to the stand supporter with a safety rope in winds up to Force 6 (limit stacked modules to 12 or fewer).





## 6.6 Module Handling

Modules must be carried and lifted by two people with both hands. Single-person or one-handed operation is strictly prohibited. Do not lift the entire module by grabbing the junction box or wires. The number of stacked modules should not exceed 15, and they should be placed with the glass side up and the frames aligned.

## 6.7 Others

- Before modules arrive at the installation site, please keep the packaging intact and do not open it.
- Handle goods carefully and steadily. Do not place goods on sloping or severely uneven ground to prevent pallets of packaged modules from tipping over or falling directly.
- When stacking modules, do not exceed the maximum height limit printed on the packaging.
- Under no circumstances should anyone stand, climb, walk, or jump on the modules. Localized heavy loads may cause micro-cracks in the cells, thereby reducing the reliability of the modules.
- When unpacking outdoors, do not do so in the rain, as wet cardboard boxes will become soft or damaged, which may cause the modules inside the packaging boxes to tilt or fall over.
- When handling or installing modules, do not use the backsheet to support the module, i.e., the backsheet should not be subjected to force.

- Do not drop or stack items (such as installation tools) on the modules, and avoid scratches on the module backsheet with sharp objects, as scratches can directly affect the safety of the modules.
- Modules or their electrical interfaces must not come into contact with unauthorized chemicals (such as oils, lubricants, pesticides, etc.), and all electrical interfaces must always be kept clean and dry.
- In windy conditions, on-site safety management should be emphasized, especially in strong wind environments. Jetion does not recommend transporting modules. Unpacked modules must be properly secured.
- Operators must wear protective gloves.

## **7** Maintenance and Cleaning

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- Do not arbitrarily change photovoltaic components (diodes, junction boxes, plugs, etc.).
- If the tilt angle is sufficient (at least 15°), modules usually do not need to be cleaned (rainwater can serve a self-cleaning function). If modules are covered with a lot of dust, it will reduce power output. We recommend cleaning the modules with plenty of clean water and a mild cleaning tool (such as a sponge).
- When dirt is dry, do not wipe or scrub to avoid scratching the glass. We recommend regular system inspections.
- Do not clean modules with cold water during hot periods to avoid damaging the modules due to severe thermal shock.
- Do not use cleaning agents containing abrasives, acetone, or other corrosive components.

## **8** Inspection

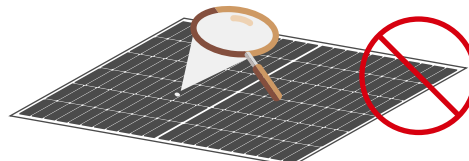
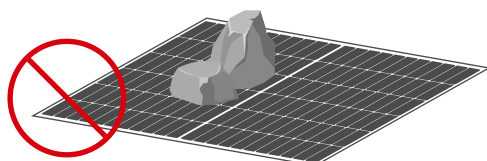
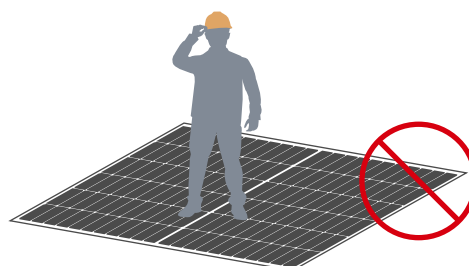
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- All fasteners are secure, safe, and not corroded.
- All cable connections are secure and not corroded.
- All connectors are undamaged.
- Check the grounding resistance of all metal parts.



## 9 Warning

- The maximum load of the module does not exceed 30 lb/ft<sup>2</sup> (146.5 kg/m<sup>2</sup>). To avoid exceeding the maximum load, real-time loads in specific areas (such as wind and snow) should be considered.
- We recommend that the number of parallel module strings does not exceed 2. If more than 2 modules or module strings are connected in parallel, each module string must use a series fuse.
- The number of modules connected in series should be determined based on the maximum system voltage of the inverter used. The open-circuit voltage of all series-connected modules should not exceed the maximum system voltage.
- Do not use modules with broken glass or material tears. Damaged modules cannot be repaired, and contact with the surface or frame of any module may result in electric shock.
- Plug-in connectors have their own positive and negative poles. Ensure the safety and tightness of the connectors, and ensure that the electrical and mechanical performance is in good condition. Plug-in connectors should not be subjected to extreme pressure.
- Do not pull the connectors and cables forcefully. Tied cables can be loosened with special tools (such as pliers).
- Do not rotate the fixing nuts of the connectors.
- Do not attempt to drill holes in the module's surface glass or frame.
- Do not lift the module using the junction box or cable.
- Do not install or handle modules when they are wet or in windy weather.
- When transporting and installing mechanical and electrical components, ensure that children stay away.
- Do not strike or violently damage the modules.
- Avoid scratching or damaging the frame and the front and back of the modules during handling and installation.
- Do not stand or step on the modules.
- Do not place too many items on the modules to avoid breaking the glass.
- Do not drop the modules or tear off the module nameplate or remove any components.
- Do not bend or twist the modules.
- Do not use paint or glue on the front of the modules.
- Do not use sharp objects on the modules.
- Artificially focused sunlight should not directly shine on the modules.
- Rain and snow water can flow out from the small holes on the back of the module frame. Ensure that these holes are not blocked during installation and connection.
- Do not wear rings, watches, metal jewelry, etc., during installation.



## **10** Danger Warning

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### **Electric Shock Can Be Life-Threatening!**

PV modules generate voltage and current when exposed to light. Although the voltage output of a single module is below the safety threshold, connecting multiple modules in series (voltage adds up) or parallel (current adds up) can create hazards. Follow these precautions during operation to prevent fires, sparks, and fatal electric shocks.

- Do not insert conductive objects into plugs or sockets!
- Never use wet plugs or sockets when installing solar modules!
- Exercise extreme caution during wiring work. Always use safety equipment (insulated tools, insulated gloves, etc.)
- Do not damage, disassemble modules, or mark them with sharp objects on the back!
- Take extra care when wiring and installing inverters. Follow the manufacturer's installation manual strictly!



### **Arc Discharge Can Be Life-Threatening!**

- DC current is generated when modules are exposed to light. Arcing may occur during circuit connection or disconnection.
- Cover modules with light-blocking cloth during installation, especially when disconnecting the system circuit (e.g., disconnecting the inverter and cables under load), to prevent lethal arcs.
- Never disconnect the PV system from the inverter while the inverter is connected to the power grid. Always disconnect the DC-side fuse of the inverter first!
- Ensure all connections are clean, contamination-free, and both electrically and mechanically secure!

# Appendix 1 : Applicable Products

| No. | Number of Cells | Cell         | Module Type  | Dimensions (L×W×H)/mm                                                           | Bolt Hole Spacing/mm                     | Frame      | Notes (in step of 5)       |
|-----|-----------------|--------------|--------------|---------------------------------------------------------------------------------|------------------------------------------|------------|----------------------------|
| 1   | 120             | Mono         | JTxxxSIh     | 1716×1005×40/25/30                                                              | 990-1300<br>400-990-1300                 | Aluminum   | xxx=300~325                |
| 2   | 120             |              | JTxxxSIh     | 1789×1048×25/30<br>1773×1046×30                                                 | 990-1300<br>400-990-1300                 |            | xxx=355~370                |
| 3   | 144             |              | JTxxxSSh     | 2043×1005×40/25/30                                                              | 990-1300<br>400-990-1300                 |            | xxx=360~390                |
| 4   | 144             |              | JTxxxSSh     | 2132×1048×25/30<br>2111×1046×30                                                 | 990-1300<br>400-990-1300                 |            | xxx=430~445                |
| 5   | 60              |              | JTxxxSXh(B)  | 1664×998×40/25/30<br>1686×1004×40/25/30                                         | 990-1300<br>400-990-1300                 |            | xxx=295~330                |
| 6   | 72              |              | JTxxxSTh(B)  | 1977×998×40/25/30<br>2009×1004×40/25/30                                         | 990-1300<br>400-990-1300                 |            | xxx=350~395                |
| 7   | 120             |              | JTxxxSIh(B)  | 1789×1048×25/30<br>1773×1046×30<br>1755×1038×30<br>1908×1134×30/35              | 990-1300<br>400-990-1300                 |            | xxx=355~380<br>xxx=430~460 |
| 8   | 144             |              | JTxxxSSh(B)  | 2132×1048×25/30<br>2111×1046×30<br>2094×1038×30<br>2256×1133×30<br>2278×1134×30 | 990-1300<br>400-990-1300<br>400-990-1400 |            | xxx=430~455<br>xxx=520~555 |
| 9   | 108             |              | JTxxxSJh(B)  | 1724×1134×30                                                                    | 400-990-1300                             |            | xxx=385~415                |
| 10  | 132             |              | JTxxxSLh(B)  | 2073×1133×30<br>2094×1134×30                                                    | 400-990-1300                             |            | xxx=475~505                |
| 11  | 132             |              | JTxxxSLk(B)  | 2384×1303×33                                                                    | 400-790-1400                             | Fiberglass | xxx=645~665,<br>695-720    |
|     |                 |              |              | 2384×1303×35                                                                    | 400-1400                                 |            |                            |
|     |                 |              |              | 2384×1303×35                                                                    | /                                        |            |                            |
| 12  | 156             |              | JTxxxSRt(B)  | 2465×1134×30                                                                    | 400-1200-1600                            | Aluminum   | xxx=610~630                |
| 13  | 144             |              | JTxxxSSt(B)  | 2278×1134×30                                                                    | 400-990-1400                             |            | xxx=570~590                |
| 14  | 132             |              | JTxxxSLt(B)  | 2094×1134×30                                                                    | 400-990-1300                             |            | xxx=500~535,<br>605-630    |
|     |                 | 2382×1134×30 |              | 400-790-1400                                                                    |                                          |            |                            |
| 15  | 120             | JTxxxSIlt(B) | 1908×1134×30 | 400-990-1300                                                                    | xxx=460~480                              |            |                            |
| 16  | 108             | JTxxxSJt(B)  | 1722×1134×35 | 400-990-1300                                                                    | xxx=410~430                              |            |                            |

## Appendix 2: Electrical Data

| No. | Module Type | Pmax(Wp) | Voc(V) | Isc(A) | Vmp(V) | Imp(A) |
|-----|-------------|----------|--------|--------|--------|--------|
| 1   | JT360SSh    | 360      | 48     | 9.58   | 39.2   | 9.19   |
| 2   | JT365SSh    | 365      | 48.2   | 9.66   | 39.4   | 9.27   |
| 3   | JT370SSh    | 370      | 48.4   | 9.74   | 39.6   | 9.35   |
| 4   | JT375SSh    | 375      | 48.6   | 9.82   | 39.8   | 9.43   |
| 5   | JT380SSh    | 380      | 48.8   | 9.9    | 40     | 9.51   |
| 6   | JT385SSh    | 385      | 49.0   | 9.97   | 40.2   | 9.58   |
| 7   | JT390SSh    | 390      | 49.3   | 10.03  | 40.5   | 9.64   |
| 8   | JT430SSh    | 430      | 49.2   | 11.16  | 40.6   | 10.6   |
| 9   | JT435SSh    | 435      | 49.4   | 11.23  | 40.8   | 10.67  |
| 10  | JT440SSh    | 440      | 49.6   | 11.3   | 41     | 10.74  |
| 11  | JT445SSh    | 445      | 49.8   | 11.37  | 41.2   | 10.81  |
| 12  | JT430SSh(B) | 430      | 49.2   | 11.16  | 40.6   | 10.6   |
| 13  | JT435SSh(B) | 435      | 49.4   | 11.23  | 40.8   | 10.67  |
| 14  | JT440SSh(B) | 440      | 49.6   | 11.30  | 41     | 10.74  |
| 15  | JT445SSh(B) | 445      | 49.8   | 11.37  | 41.2   | 10.81  |
| 16  | JT450SSh(B) | 450      | 50.0   | 11.44  | 41.4   | 10.87  |
| 17  | JT455SSh(B) | 455      | 50.2   | 11.51  | 41.6   | 10.94  |
| 18  | JT300SIh    | 300      | 39.2   | 9.85   | 32.4   | 9.26   |
| 19  | JT305SIh    | 305      | 39.4   | 9.93   | 32.7   | 9.33   |
| 20  | JT310SIh    | 310      | 39.6   | 10.03  | 32.9   | 9.43   |
| 21  | JT315SIh    | 315      | 39.9   | 10.1   | 33.1   | 9.52   |
| 22  | JT320SIh    | 320      | 40.2   | 10.16  | 33.4   | 9.59   |
| 23  | JT325SIh    | 325      | 40.5   | 10.2   | 33.7   | 9.65   |
| 24  | JT355SIh    | 355      | 40.7   | 11.14  | 33.7   | 10.54  |
| 25  | JT360SIh    | 360      | 40.9   | 11.23  | 33.9   | 10.62  |
| 26  | JT365SIh    | 365      | 41.1   | 11.32  | 34.1   | 10.71  |
| 27  | JT370SIh    | 370      | 41.3   | 11.41  | 34.3   | 10.79  |
| 28  | JT355SIh(B) | 355      | 40.7   | 11.14  | 33.7   | 10.54  |
| 29  | JT360SIh(B) | 360      | 40.9   | 11.23  | 33.9   | 10.62  |
| 30  | JT365SIh(B) | 365      | 41.1   | 11.32  | 34.1   | 10.71  |
| 31  | JT370SIh(B) | 370      | 41.3   | 11.41  | 34.3   | 10.79  |
| 32  | JT375SIh(B) | 375      | 41.5   | 11.49  | 34.5   | 10.87  |
| 33  | JT380SIh(B) | 380      | 41.7   | 11.58  | 34.7   | 10.96  |
| 34  | JT350STh(B) | 350      | 47.51  | 9.43   | 39     | 8.98   |
| 35  | JT355STh(B) | 355      | 47.68  | 9.53   | 39.2   | 9.06   |
| 36  | JT360STh(B) | 360      | 47.85  | 9.63   | 39.4   | 9.14   |
| 37  | JT365STh(B) | 365      | 48.02  | 9.71   | 39.7   | 9.2    |
| 38  | JT370STh(B) | 370      | 48.19  | 9.82   | 40     | 9.25   |
| 39  | JT375STh(B) | 375      | 48.28  | 9.85   | 40.2   | 9.33   |
| 40  | JT380STh(B) | 380      | 48.37  | 9.89   | 40.5   | 9.39   |

| No. | Module Type | Pmax(Wp) | Voc(V) | Isc(A) | Vmp(V) | Imp(A) |
|-----|-------------|----------|--------|--------|--------|--------|
| 41  | JT385STh(B) | 385      | 48.46  | 9.92   | 40.2   | 9.58   |
| 42  | JT390STh(B) | 390      | 48.55  | 9.96   | 40.5   | 9.64   |
| 43  | JT395STh(B) | 395      | 48.65  | 9.99   | 40.7   | 9.71   |
| 44  | JT295SXh(B) | 295      | 38.9   | 9.77   | 32.1   | 9.19   |
| 45  | JT300SXh(B) | 300      | 39.1   | 9.87   | 32.3   | 9.3    |
| 46  | JT305SXh(B) | 305      | 39.4   | 9.93   | 32.7   | 9.33   |
| 47  | JT310SXh(B) | 310      | 39.6   | 10.03  | 32.9   | 9.43   |
| 48  | JT315SXh(B) | 315      | 39.9   | 10.1   | 33.1   | 9.52   |
| 49  | JT320SXh(B) | 320      | 40.2   | 10.16  | 33.4   | 9.59   |
| 50  | JT325SXh(B) | 325      | 40.5   | 10.2   | 33.7   | 9.65   |
| 51  | JT330SXh(B) | 330      | 40.8   | 10.26  | 34.0   | 9.71   |
| 52  | JT430SIh(B) | 430      | 40.5   | 13.58  | 33.8   | 12.73  |
| 53  | JT435SIh(B) | 435      | 40.7   | 13.65  | 34.0   | 12.80  |
| 54  | JT440SIh(B) | 440      | 40.9   | 13.72  | 34.2   | 12.87  |
| 55  | JT445SIh(B) | 445      | 41.1   | 13.79  | 34.4   | 12.94  |
| 56  | JT450SIh(B) | 450      | 41.3   | 13.86  | 34.6   | 13.01  |
| 57  | JT455SIh(B) | 455      | 41.5   | 13.93  | 34.8   | 13.08  |
| 58  | JT460SIh(B) | 460      | 41.7   | 14.00  | 35.0   | 13.15  |
| 59  | JT520SSh(B) | 520      | 48.8   | 13.57  | 40.9   | 12.72  |
| 60  | JT525SSh(B) | 525      | 49.0   | 13.63  | 41.1   | 12.78  |
| 61  | JT530SSh(B) | 530      | 49.2   | 13.69  | 41.3   | 12.84  |
| 62  | JT535SSh(B) | 535      | 49.4   | 13.75  | 41.5   | 12.90  |
| 63  | JT540SSh(B) | 540      | 49.6   | 13.80  | 41.7   | 12.95  |
| 64  | JT545SSh(B) | 545      | 49.8   | 13.86  | 41.9   | 13.01  |
| 65  | JT550SSh(B) | 550      | 50.0   | 13.92  | 42.1   | 13.07  |
| 66  | JT555SSh(B) | 555      | 50.2   | 13.98  | 42.3   | 13.13  |
| 67  | JT385SJh(B) | 385      | 36.4   | 13.56  | 30.3   | 12.71  |
| 68  | JT390SJh(B) | 390      | 36.6   | 13.64  | 30.5   | 12.79  |
| 69  | JT395SJh(B) | 395      | 36.8   | 13.72  | 30.7   | 12.87  |
| 70  | JT400SJh(B) | 400      | 34.0   | 13.80  | 30.9   | 12.95  |
| 71  | JT405SJh(B) | 405      | 34.2   | 13.88  | 31.1   | 13.03  |
| 72  | JT410SJh(B) | 410      | 34.4   | 13.95  | 31.3   | 13.10  |
| 73  | JT415SJh(B) | 415      | 34.6   | 14.03  | 31.5   | 13.18  |
| 74  | JT475SLh(B) | 475      | 44.6   | 13.58  | 37.4   | 12.71  |
| 75  | JT480SLh(B) | 480      | 44.8   | 13.64  | 37.6   | 12.77  |
| 76  | JT485SLh(B) | 485      | 45.0   | 13.71  | 37.8   | 12.84  |
| 77  | JT490SLh(B) | 490      | 45.2   | 13.77  | 38.0   | 12.90  |
| 78  | JT495SLh(B) | 495      | 45.4   | 13.83  | 38.2   | 12.96  |
| 79  | JT500SLh(B) | 500      | 45.6   | 13.90  | 38.4   | 13.03  |
| 80  | JT505SLh(B) | 505      | 45.8   | 13.96  | 38.6   | 13.09  |
| 81  | JT645SLk(B) | 645      | 45.0   | 18.2   | 42.2   | 14.75  |
| 82  | JT650SLk(B) | 650      | 45.2   | 18.24  | 42.4   | 14.79  |
| 83  | JT655SLk(B) | 655      | 45.4   | 18.28  | 42.6   | 14.82  |

| No. | Module Type | Pmax(Wp) | Voc(V) | Isc(A) | Vmp(V) | Imp(A) |
|-----|-------------|----------|--------|--------|--------|--------|
| 84  | JT660SLk(B) | 660      | 45.6   | 18.32  | 42.8   | 14.85  |
| 85  | JT665SLk(B) | 665      | 45.8   | 18.36  | 43.0   | 14.89  |
| 86  | JT695SLk(B) | 695      | 49.85  | 17.37  | 41.95  | 16.57  |
| 87  | JT700SLk(B) | 700      | 50.00  | 17.43  | 42.1   | 16.63  |
| 88  | JT705SLk(B) | 705      | 50.15  | 17.49  | 42.25  | 16.69  |
| 89  | JT710SLk(B) | 710      | 50.30  | 17.55  | 42.4   | 16.75  |
| 90  | JT715SLk(B) | 715      | 50.45  | 17.61  | 42.55  | 16.81  |
| 91  | JT720SLk(B) | 720      | 50.60  | 17.67  | 42.7   | 16.87  |
| 92  | JT610SRt(B) | 610      | 55.03  | 14.17  | 45.49  | 13.41  |
| 93  | JT615SRt(B) | 615      | 55.23  | 14.23  | 45.66  | 13.47  |
| 94  | JT620SRt(B) | 620      | 55.43  | 14.29  | 45.82  | 13.53  |
| 95  | JT625SRt(B) | 625      | 55.63  | 14.35  | 45.96  | 13.60  |
| 96  | JT630SRt(B) | 630      | 55.83  | 14.41  | 46.12  | 13.66  |
| 97  | JT570SSt(B) | 570      | 51.07  | 14.25  | 42.32  | 13.47  |
| 98  | JT575SSt(B) | 575      | 51.27  | 14.31  | 42.47  | 13.54  |
| 99  | JT580SSt(B) | 580      | 51.47  | 14.37  | 42.62  | 13.61  |
| 100 | JT585SSt(B) | 585      | 51.67  | 14.43  | 42.77  | 13.68  |
| 101 | JT590SSt(B) | 590      | 51.87  | 14.49  | 42.92  | 13.75  |
| 102 | JT500SLt(B) | 500      | 45.85  | 14.03  | 37.90  | 13.20  |
| 103 | JT505SLt(B) | 505      | 45.95  | 14.11  | 38.05  | 13.28  |
| 104 | JT510SLt(B) | 510      | 46.10  | 14.19  | 38.20  | 13.36  |
| 105 | JT515SLt(B) | 515      | 46.25  | 14.26  | 38.35  | 13.43  |
| 106 | JT520SLt(B) | 520      | 46.40  | 14.34  | 38.50  | 13.51  |
| 107 | JT525SLt(B) | 525      | 46.55  | 14.42  | 38.65  | 13.59  |
| 108 | JT460SIt(B) | 460      | 42.00  | 14.07  | 34.60  | 13.30  |
| 109 | JT465SIt(B) | 465      | 42.15  | 14.16  | 34.75  | 13.39  |
| 110 | JT470SIt(B) | 470      | 42.30  | 14.24  | 34.90  | 13.47  |
| 111 | JT475SIt(B) | 475      | 42.45  | 14.32  | 35.05  | 13.56  |
| 112 | JT480SIt(B) | 480      | 42.60  | 14.40  | 35.20  | 13.64  |
| 113 | JT410SJt(B) | 410      | 37.70  | 13.92  | 31.20  | 13.15  |
| 114 | JT415SJt(B) | 415      | 37.85  | 14.01  | 31.35  | 13.24  |
| 115 | JT420SJt(B) | 420      | 38.00  | 14.11  | 31.50  | 13.34  |
| 116 | JT425SJt(B) | 425      | 38.15  | 14.20  | 31.65  | 13.43  |
| 117 | JT430SJt(B) | 430      | 38.30  | 14.30  | 31.80  | 13.53  |
| 118 | JT605SLt(B) | 605      | 48.50  | 15.89  | 40.30  | 15.02  |
| 119 | JT610SLt(B) | 610      | 48.70  | 15.94  | 40.48  | 15.07  |
| 120 | JT615SLt(B) | 615      | 48.90  | 16.00  | 40.65  | 15.13  |
| 121 | JT620SLt(B) | 620      | 49.10  | 16.06  | 40.82  | 15.19  |
| 122 | JT625SLt(B) | 625      | 49.30  | 16.12  | 40.99  | 15.25  |
| 123 | JT630SLt(B) | 630      | 49.50  | 16.18  | 41.16  | 15.31  |



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### Manufacturing Plants

CNBM (Jiangyin) Photoelectric Material Technology Co., Ltd.

📍 New material Industry Park, Huangtu, Jiangyin, Jiangsu Province

Haian Fab - China

📍 Haian Industry Park, Haian, Nantong, Jiangsu Province

Tongcheng Fab - China

📍 Beisan Road, Tongcheng Economic Development Zone,  
Tongcheng, Anhui Province

