

Unpacking manual for vertical installation of modules

Equipment and tools: knives, gloves, crane/forklifts (The fork thickness of the forklift should be less than 85mm)、unpacking supports;

Personnel: No less than 3, including 2 for anti tilt packaging; It is forbidden to work in rainy conditions during unpacking outdoors;

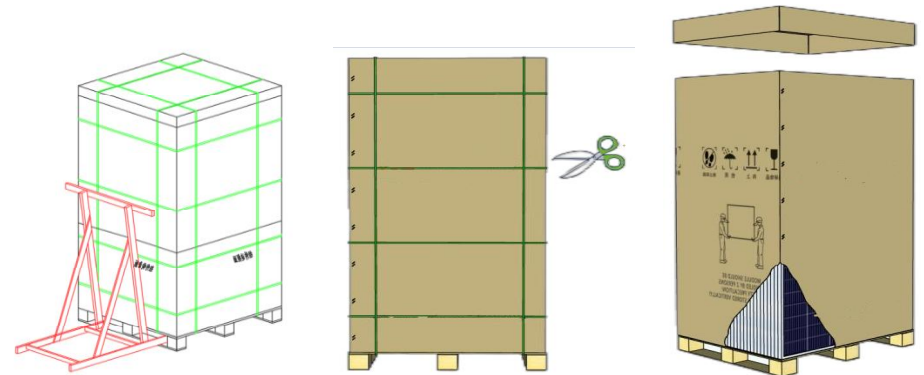
Pre-disassembly inspection: Please confirm whether the module is in a vertical position, check if the outer packaging of the module is intact, and ensure that the packaging straps of the single-tray module are securely fastened before unpacking.

Explanation: The outer box printing and labeling contents vary with the product model batch; The printing and marking shown in all the pictures below are for reference only.



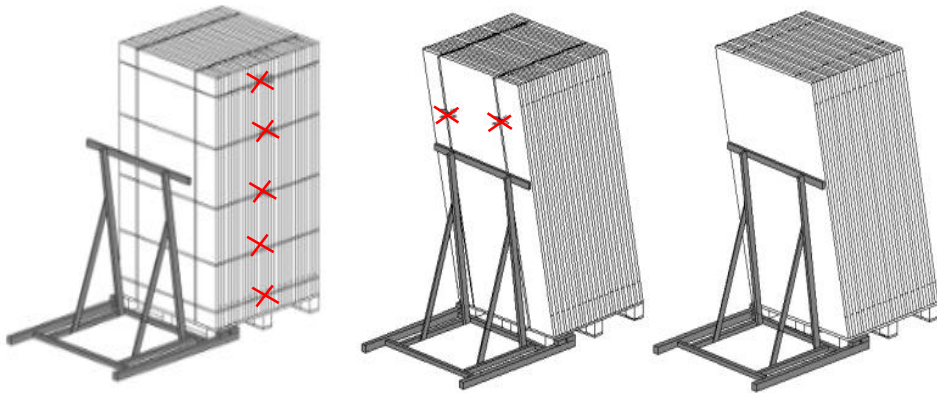
Step 1

When unloading with a crane, it is necessary to select a lifting rope with sufficient tensile force based on the weight and size of the module. A wooden board or special tooling with the same width as the outer packaging box of the module should be used to support the lifting strap above the box. Additionally, metal steel pipes or special tooling should be added to support and fix the lifting strap at the bottom of the lower tray of the module to avoid squeezing the modules inside the box. Vertically packaged modules are allowed to be lifted and installed in batches of one tray at a time. They should be gently placed on a horizontal surface. When unloading with a forklift, it is important to avoid collisions with the module boxes to prevent damage to the internal modules. They should be gently placed on a horizontal surface.



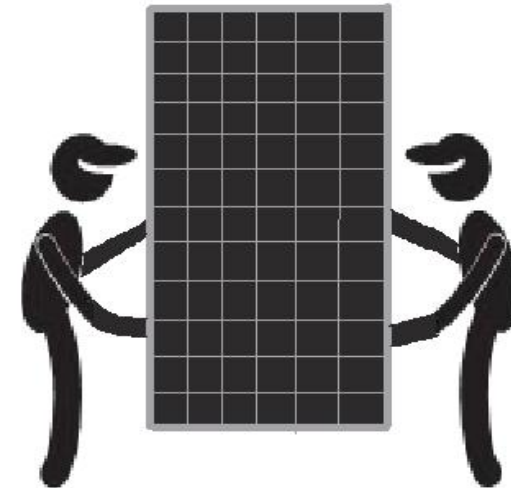
Step 2

Before unpacking the modules, supports (special support frames or a pallet of unpacked modules) should be placed at a position 15 to 20cm from the back of the long side of the module. Carefully check the shipping marks on the box to confirm the module model, power, quantity, and serial number, and inspect whether the packaging box is intact. After confirmation, remove the waterproof cover and stretch wrap, unpack the strapping belts of the outer box, and take off the box cover and side panels.



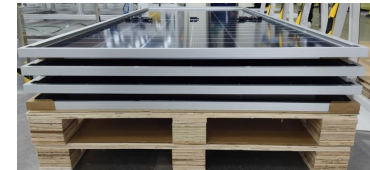
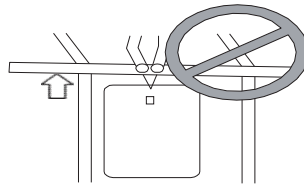
Step 3

Two people should stand on each side of the short edge of the pallet, with one person holding the module in place while the other cuts through the horizontal packing straps from bottom to top using a knife. After removing all the horizontal packing straps, the two people should gently push the module against the support object at an angle. Once the placement is stable, they can let go and remove the vertical packing straps.



Step 4

Two people should grasp the long edges of the module and simultaneously lift it upright with force to transport it to the designated location.



Notes:

- 1、 For long-term storage, retain the original packaging and cover it with a waterproof cloth. Do not stack.
- 2、 When transporting, securely fix the packaging boxes on the transportation platform. Avoid using tricycles and ensure stability.
- 3、 It is prohibited to carry modules on one's back or with a rope, and it is not allowed to pull or lift the wires or junction boxes.
- 4、 Do not step on the modules.
- 5、 Uninstalled modules after unpacking should be placed horizontally, supported by double pallets. Place the packaging box cover on the pallet, with the glass face of the first module facing up and the glass faces of the remaining modules facing down for stacking. The number of stacked modules should not exceed 16.
- 6、 Use a forklift to move the packing box with pallet to the working area, and avoid violent bumps, vibrations and dumping the pallet backwards during transportation. If it is a manual forklift, enter from the short side of the pallet.

Unpacking support assembly operation instructions

The unpacking support is divided into 8 structural components:

1. Support 1*1, Bracket 2*1, Support 3*1, Round tube 1*3, Round tube 2*1, and 4 round pipe pins, as shown in figure A;
2. As shown in Figure B, use two round tubes 1 and 2 to assemble and fix each support;
3. As shown in Figure C, place the assembled bracket on the side of the module's leaning surface, with the protruding part of bracket 1 extending beyond the outermost corner block of the pallet. Insert a circular pipe 1 into the circular hole near the bracket 1 and the pallet, and simultaneously insert the circular pipe pin into the locking holes of the four circular pipes to complete the assembly.
4. Figure D shows the assembly completion of foundation support and reinforcement support.

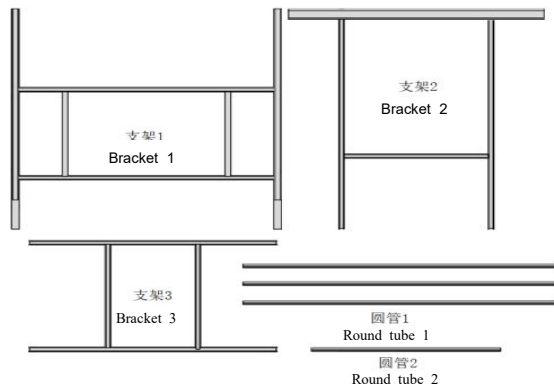


Figure A Exploded view of support components

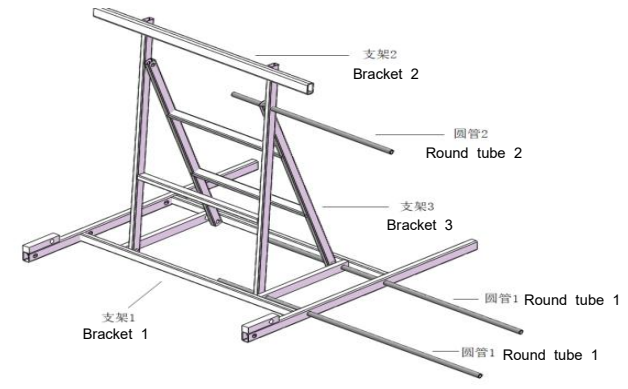


Figure B Assembly diagram I of leaning support

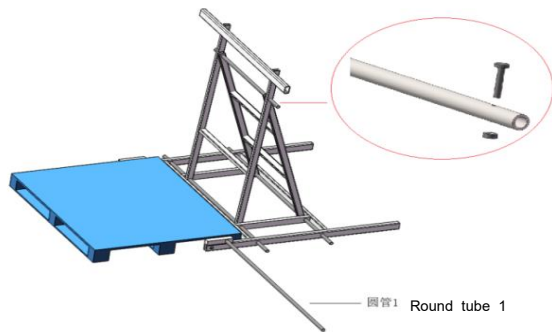


Figure C Assembly diagram II of leaning support



Figure D Schematic diagram of leaning against the support

Note: After the bracket is placed, do not omit the installation of safety latch!