



**PIXON**  
Redefining Solar



# Module Handling Guide

# HANDLING

## 1.1 Forklift handling precautions:

### Unloading Process:

During the unloading process, the forklift should be chosen carefully based on the size and weight of the cargo.

After the forklift has been loaded, adjust the space between the two forks as necessary.

The weight on the two forks should be evenly distributed and not bend. The retainer should be near to one edge of the assembly box (Figure 1)



Figure 1

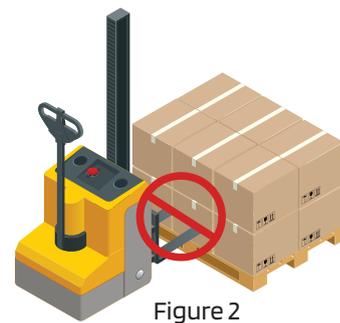


Figure 2

Except for the forklift operator, others should be maintained at a safe distance from the range throughout the process to guarantee employee safety.

To avoid failure and module downtime, a specific command is necessary.

When moving pelletized packing boxes to the operation area with a forklift, the forklift must be lifted and unloaded slowly and steadily, and the modules must be transported without turbulence or strong vibration.

If the fork length is less than  $\frac{3}{4}$  the size of the products, extension sleeves should be attached to the forks before the assembly is forked to prevent the packing container from spilling when the forklift is moved.

## 1.2 Taking Precautions while Hoisting:

The crane unloading hoisting must not be done with wire rope. (Figure 3)

The length of the sling should be evenly distributed on both sides before lifting to avoid the case body tilting to one side during lifting to avoid the assembly exploding.

To avoid module tilting, keep the box balanced while lifting.

When directing the hoisting box to fall during unloading, it must be kept as flat as possible to avoid colliding with the module box and throwing it, and the ground must be flat (Figure 4)



Figure 3



Figure 4

The modules without a frame should be supported during loading and unloading to avoid the impact of sling on the safety of items in the hoisting process.

To lessen the pressure of the contact position on the box, use wooden sticks, boards, or other fixtures that are the same width as the outer packing cases on the upper section of the box (Figure 5).

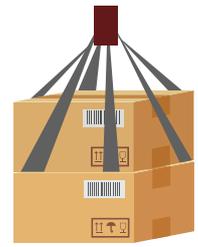


Figure 5

## STORAGE INFORMATION

### 2.1 Storage Guidelines

Because of the complex environment and climate at the project site, it is recommended that stacked modules be stored with a single support after dismantling to ensure safe storage on site.

After dismantling, store the double glass modules on a single support.

The modules should be kept in a full outer package, and the storage location, as well as pallets and packing boxes, should be protected from wet, direct sunshine, and rain.

The storage facilities for modules should be kept dry, level, and with a horizontal angle of less than 10 degrees.

Ascertain that all modules using the same current gear are put in a central location (Square matrix, bus box).

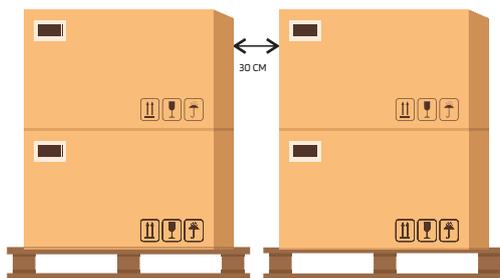


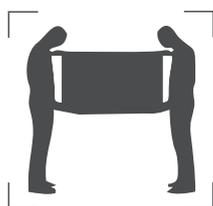
Figure 6



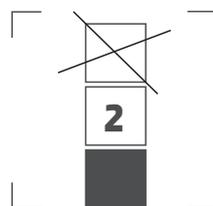
Figure 7

The modules should be neatly arranged with sufficient space between them. The distance between boxes should be at least 30cm (Figure 6)

No additional things should be stacked on the modules or crates (Figure 7)



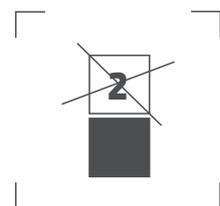
MODULE SHOULD BE HANDLED BY 2 PERSONS



STACK LIMIT IN 2 UNITS



FRAGILE



DO NOT OPEN 2ND UNIT ON THE STACK



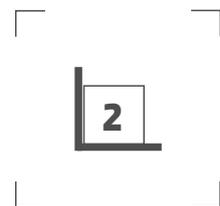
KEEP DRY



THE SIDE UP



DO NOT STEP ON



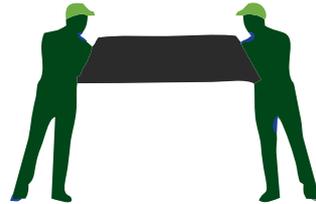
TAKE SUPPORT OF MODULE STAND ON THE GROUND WHILE UNLOADING

# UNPACKAGING INFORMATION

## 3.1 Required Equipments and Tools - Cutter, Glove, Forklift

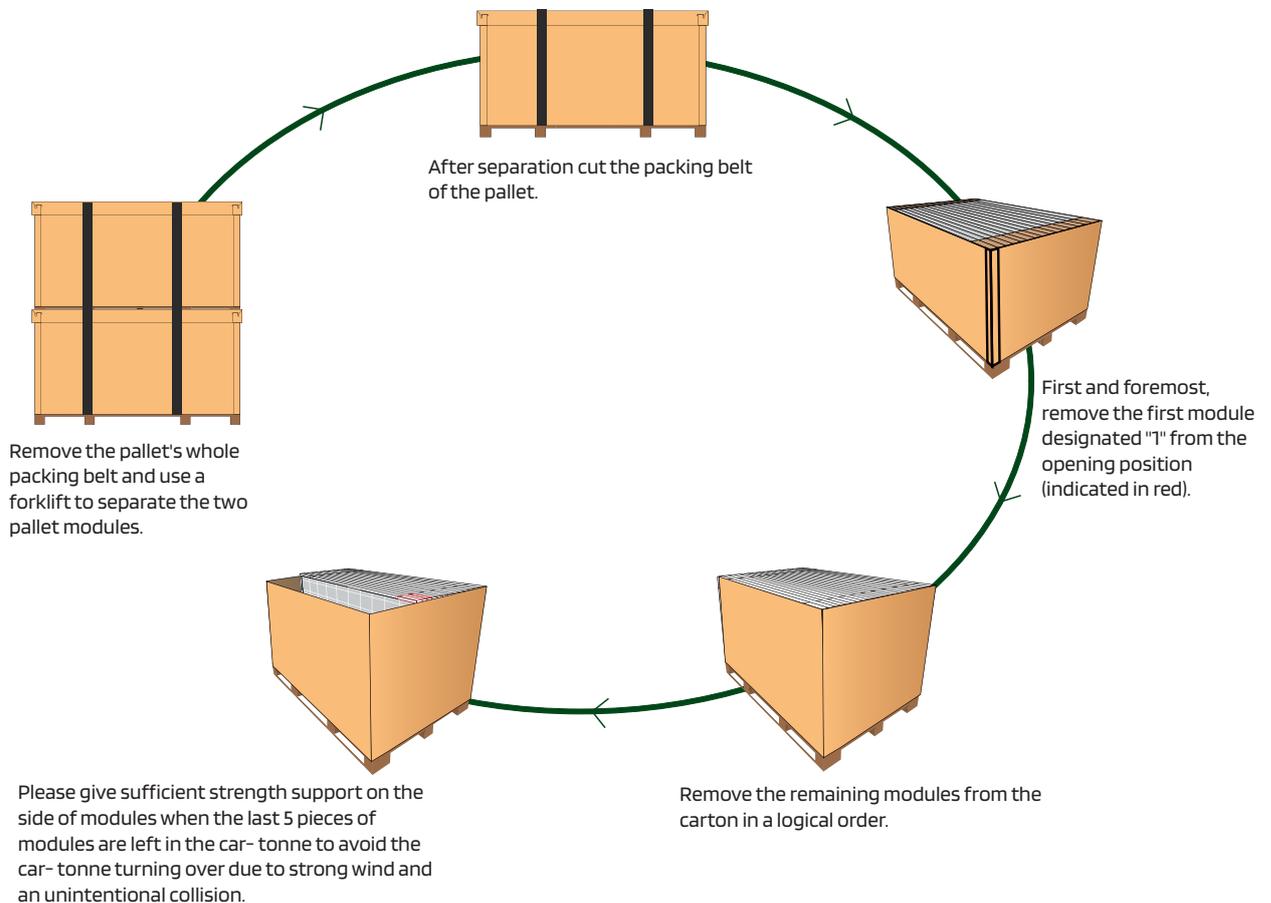


## 3.2 Manpower Required - At least two people are required

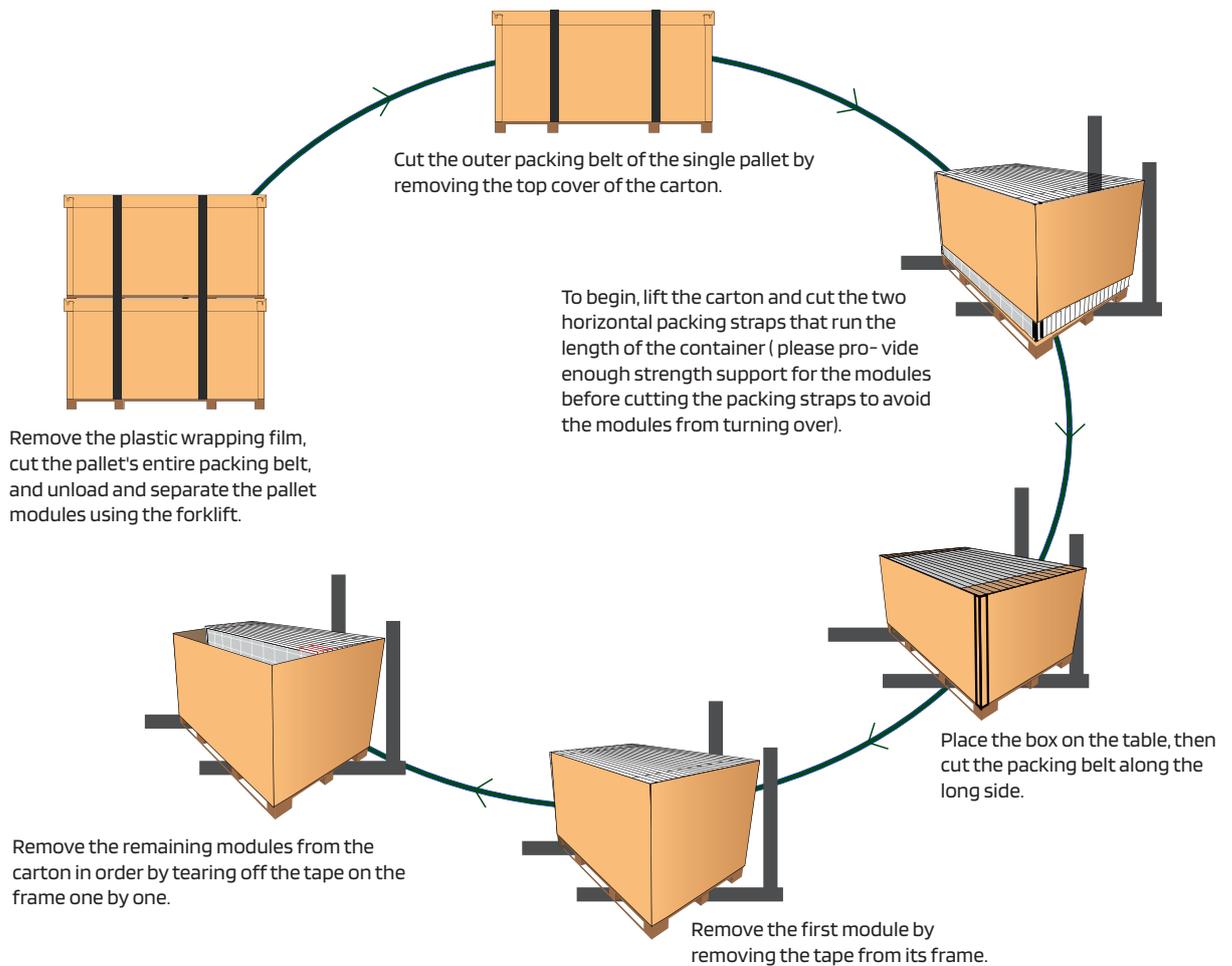


## 3.3 Unpacking Instruction for Modules

Unpacking Material :A

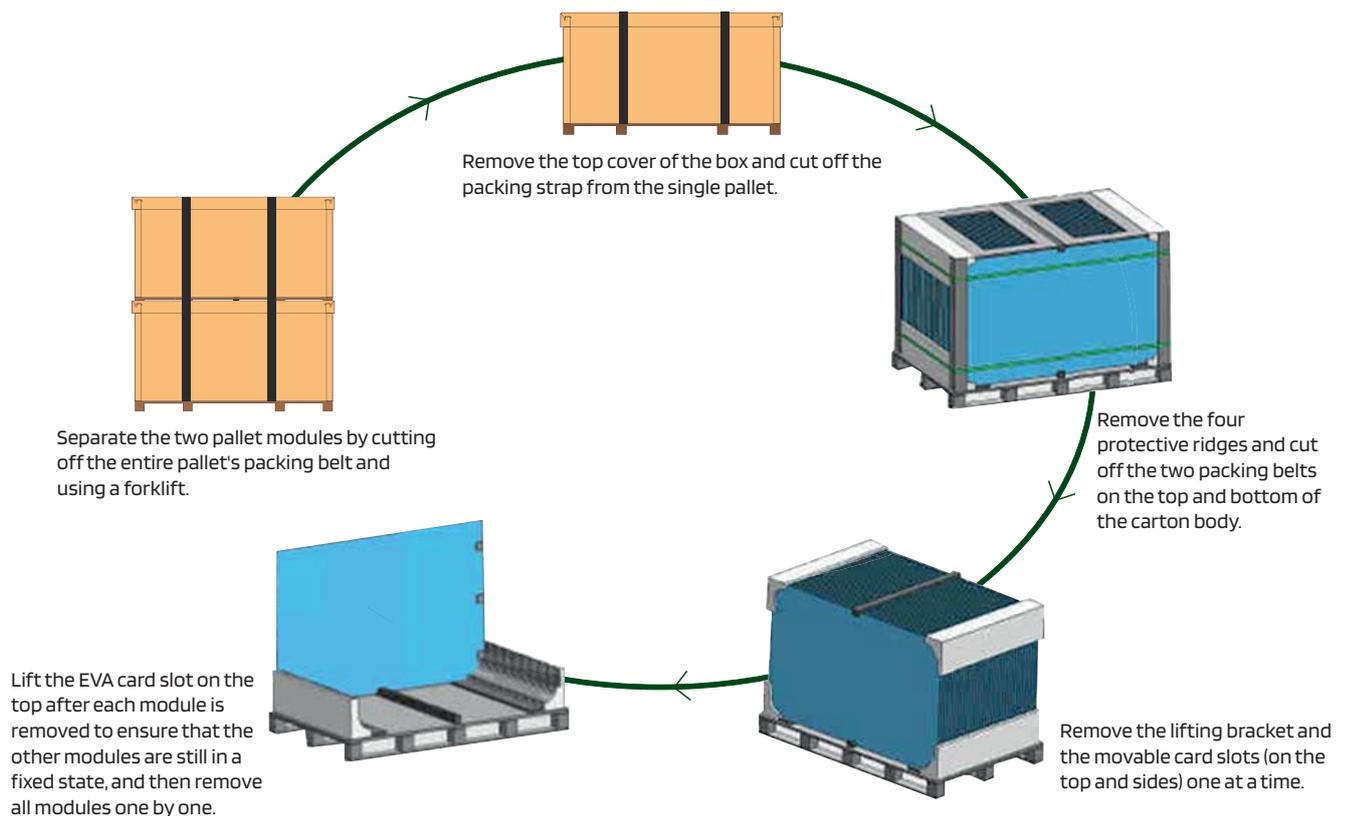


## Unpacking Material: B

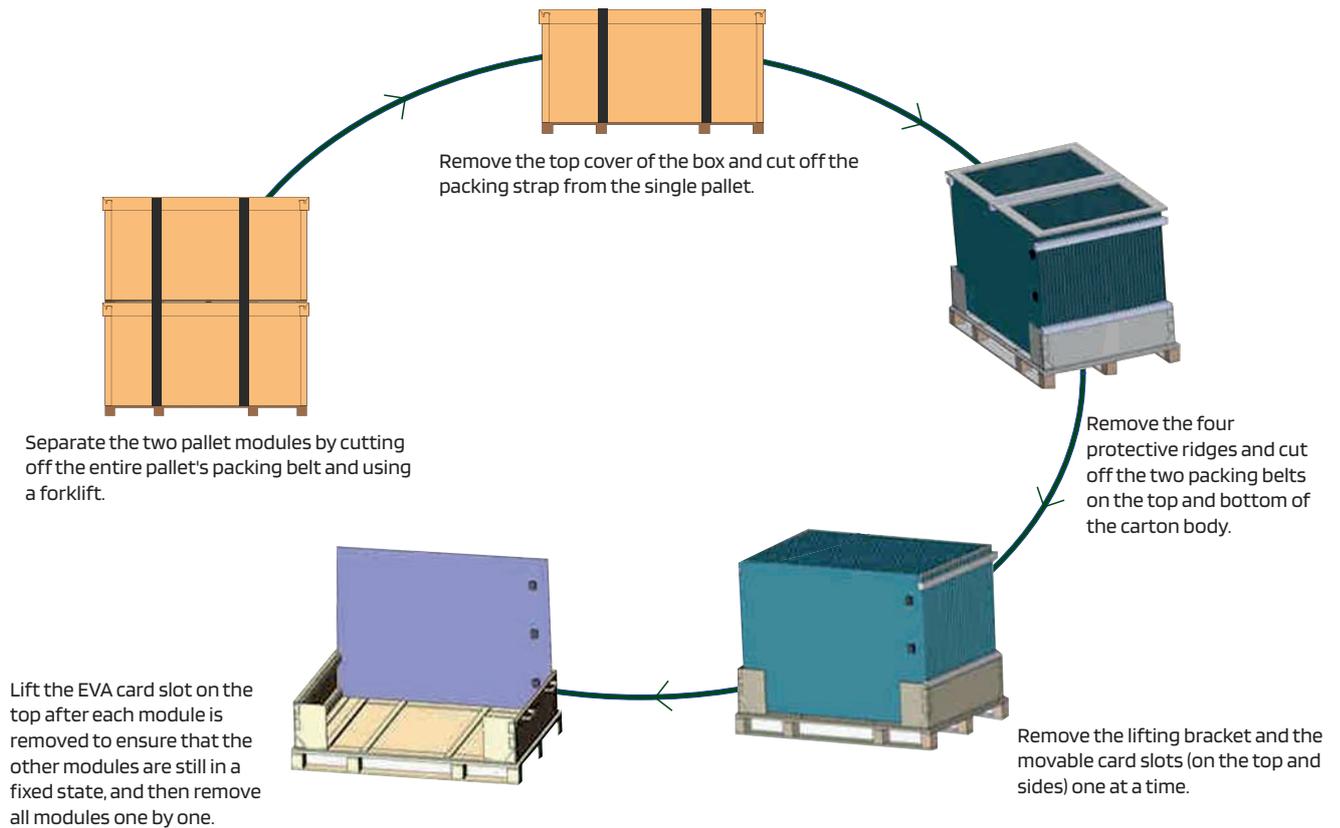


## 3.4 Unpacking Instruction for Modules

### Unpacking Material: A



## Unpacking Material: B



## UNPACKAGING INFORMATION

### 3.5 Attention to unpacking

When opening boxes outside on rainy days, avoid doing so since the cartons will soften and spread out, perhaps damaging the modules.

When disassembled modules are exposed to the elements, specific procedures must be followed. To avoid damage, it is best not to relocate the modules.

Before unpacking the modules, stack them in a well-ventilated, rain-proof, and dry location.

Cut the exterior box packaging tape with scissors or an art knife. Do not scratch the surface of the glass. Immediately after opening the case, double-check the quantity of modules inside.

Support should be placed on the back of the assembly once it has been removed from the box to prevent the modules from collapsing (Figure 8)

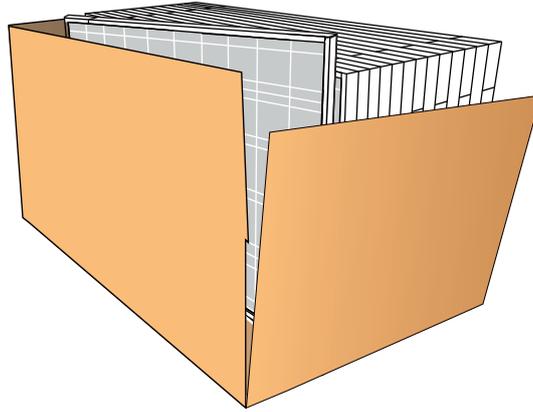


Figure 8

### 3.6 Focusing on unpacking

To prevent the modules from being dropped, the working surface must allow the packing box to be set horizontally.

The packing box's transshipment movement must be completed before the outer packing case is removed, and it must be repackaged before being transported or a single piece of manual short-distance lifting must be performed.

To avoid scratching hands or leaving fingerprints on glass, please use protective gloves when shipping and handling.

Pulling the junction box is forbidden in any case; when raising the module, hold the short edge and pull it out (Figure 9)

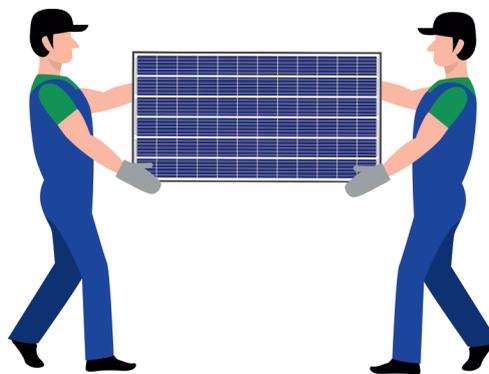


Figure 9

Before installing the modules, do not remove the corner guards (Double glass borderless modules do not need to remove corner guard)

The remaining modules in the installation should be positioned in the centre and protected by a packing case.



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