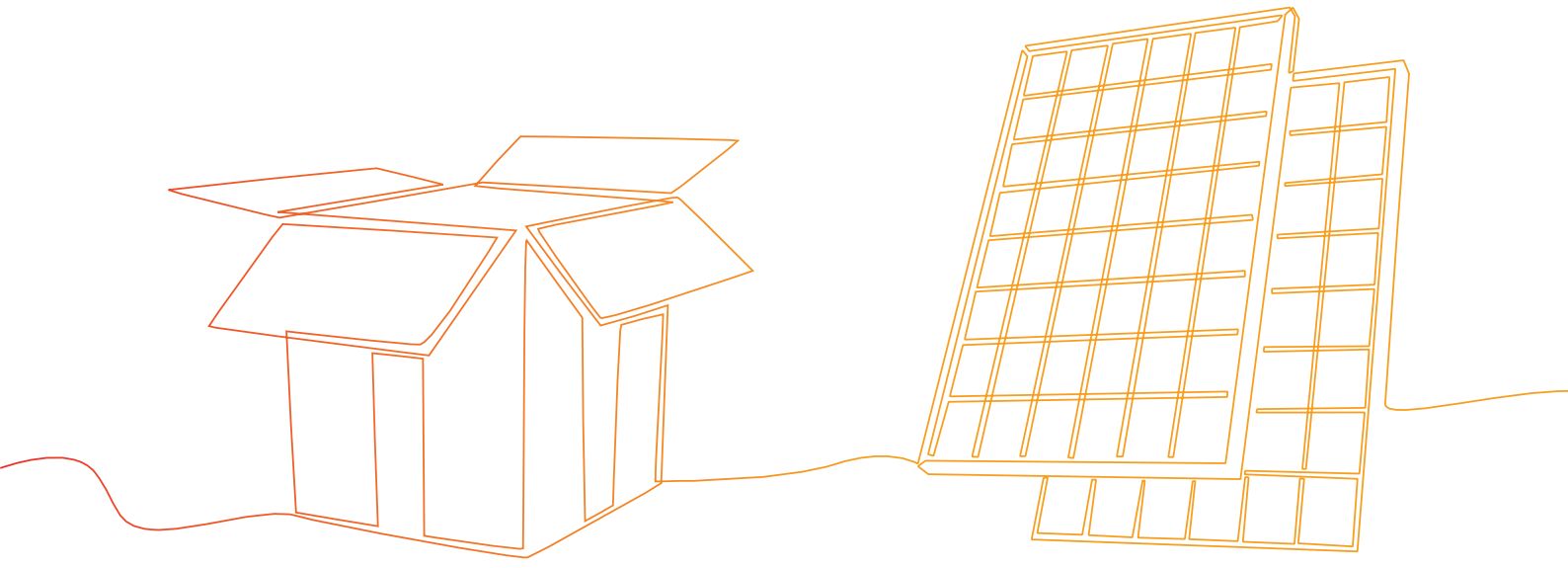
Unpacking Handling Storing Guide

Solar PV Modules

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Introduction

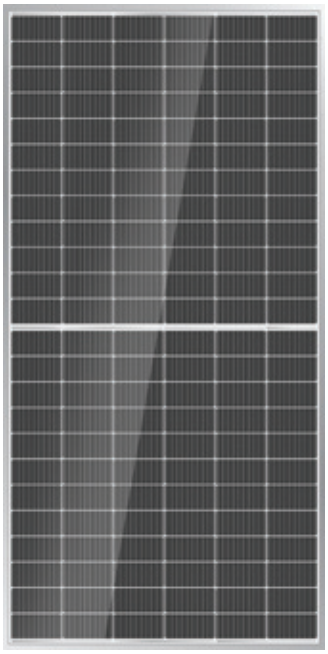
Welcome to INOX PV Solar Modules.
The INOX team of industry experts is committed to ensuring your success—from the arrival of your shipment to the installation of your modules.

This guide provides clear instructions for inspecting, transporting, unpacking, handling, and storing INOX PV solar modules safely and effectively. Following these best practices will help ensure the protection of both personnel and products.

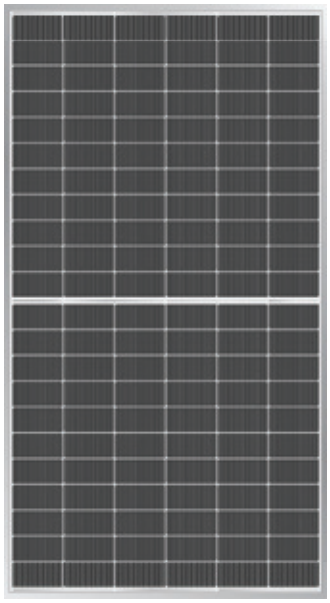
No matter where you are in the delivery and installation process, INOX is here to support you.

Applicable Modules:

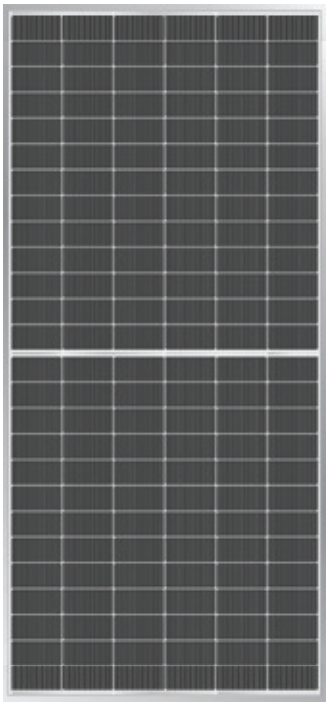
These unpacking, handling, and storage practices apply to the following INOX modules:Bi-facial N-TOPCon Solar PV modules



72 cell - M10R 144HC
595W Dual glass, bifacial



66 cell - G12R 132HC
625W Dual glass, bifacial



78 cell - M10R 156HC
645W Dual glass, bifacial

1. How Your Modules Are Packed

INOX ships modules in secure, sustainable packaging designed for safe transport and easy handling.

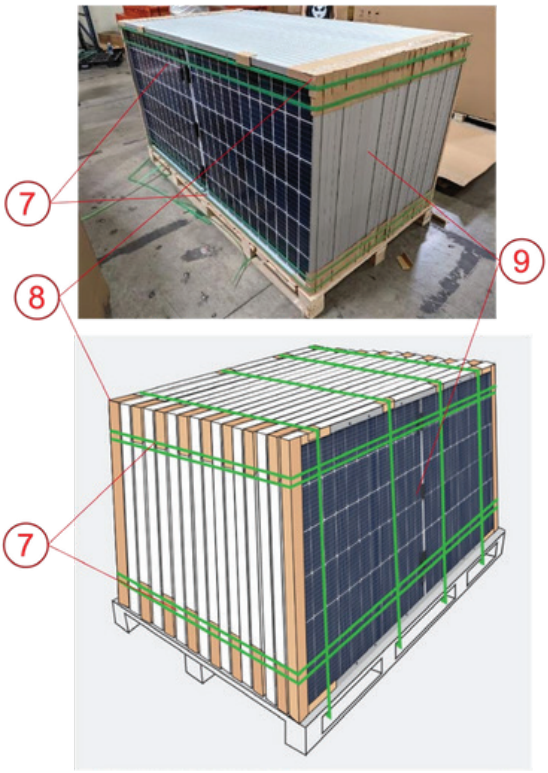
Module Type	Module Dimensions (mm)	Module Weight	Pallet Dimensions (L×W×H)*	Pallet Weight*	Pcs/Pallet	Pallets per 40HC Container
72 Cell / M10R 144HC 595W	2278 × 1134 × 30	31.4 kg	—	—	—	—
66 Cell / G12R 132HC 625W	2382 × 1134 × 30	33.5 kg	—	—	—	—
78 Cell / M10R 156HC 645W	2465 × 1134 × 30	34 kg	—	—	—	—

Pallet dimensions and weight are for reference only.

Packaging Components Include:

1. Stack interconnecting straps
2. Shipping label (use the label to identify your modules)
3. External strapping
4. External corner protectors
5. Cardboard sleeve (remember that the glass side of the module is directly on the other side of the cardboard. Do not cut into the cardboard with a sharp object on the sides)
6. Plywood divider
7. Internal strapping (when you remove the strapping, be sure to store your modules safely)
8. Module corner protector
9. Vertically strapped panels





2. Storage and Unpacking Guidelines

Store pallets in a **covered, dry, and well-ventilated** area before unpacking.
Place pallets on a **flat, open, and dry surface** during unpacking.
Review the **INOX Solar PV Module Installation Manual** before starting installation.
Do not support pallets with sharp or unstable materials.
Position pallets near a solid structure (wall, rack, or similar) for safety.

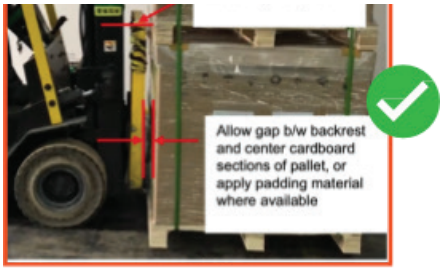
3. Safe Handling Procedures

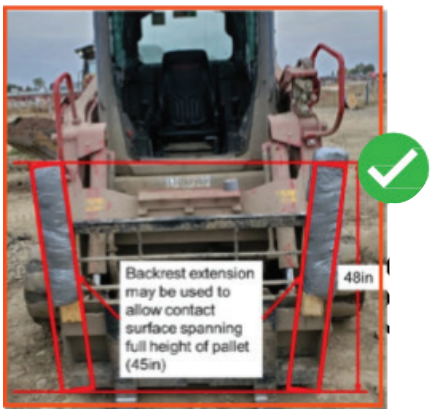
Always handle modules in pairs — never carry a module alone.
Use **two people** to lift and move each module safely.
Do not stand, walk, or place heavy objects on modules.
Avoid scratching the anodized frame except at grounding points.
Never drill holes in the frame — this voids the warranty and reduces strength.

4. Using Forklifts – Loading and Moving Pallets

Best Practices:

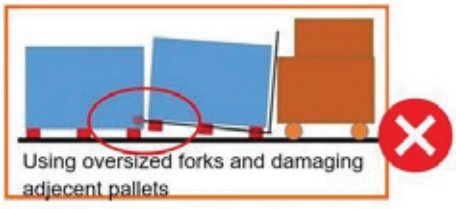
- Always insert forks from the short side of the pallet when safe.
- Use the correct fork length:
  - 72-inch forks for 72-cell modules
  - <70-inch forks for 66-cell modules
- Use a forklift with a backrest height ≥ 48 inches.
- Do not press the backrest into cardboard packaging.
- Avoid tilting or leaning stacked pallets during movement.
- Do not extend forks beyond the pallet edge or ram pallets.





Recommended Forklift Specifications:

- Fork Length: 60–72 inches (depending on pallet size)
- Backrest Height: 48 inches minimum
- Always maintain a safe gap between the pallet and backrest.







5. Inspecting Packaging Upon Arrival

When the shipment arrives:

- Check pallet labels to verify module type and quantity.
- Inspect packaging for any damage such as:
  - Torn, punctured, or collapsed cartons
  - Broken straps or wet packaging
  - Forklift marks, dents, or cracks in frames

If Damage Is Found:

1. Notify the driver immediately.
2. Inform the carrier and INOX staff within 24 hours.
3. Submit a written report with details and photos within 48 hours.
   (See the Claims & Warranty section for full process.)



Pallet wear and tear or damaged modules



Unusual dents or scratches on cardboard



Unusual loading method, shifted or tilted pallets



Forklift damage on pallet with exposed modules

6. How to Unpack Modules



DOs:

Unpack only on a flat, dry, stable surface.
Use a solid self-standing support (wall, rack, or post).
Carefully cut straps and remove shrink wrap.
Inspect outer cardboard for dents or tears before removal.
Remove and inspect the top modules for damage.
Photograph any damage and note pallet/module IDs.



DON'Ts:

Do not unpack on wet, inclined, or soft surfaces.
Do not use sharp tools that may damage the cardboard or glass.
Do not stand or walk on modules.
Do not leave loose or unsupported panels.

7. Storing Your Modules



DOs:

Store pallets in covered, dry, ventilated areas.
Keep packaging intact until ready to install.
Respect maximum stacking height indicated on pallet.



DON'Ts:

Do not store loose panels.
Do not exceed stacking limits.
Do not place heavy or sharp items on the modules.

8. If Damage or Issues Occur During Shipping

If your modules are damaged during transport:

1. Notify the driver immediately and record it on the Bill of Lading.
2. Inform INOX Solar and the carrier dispatch within 24 hours.
3. Provide detailed documentation within 48 hours, including:
    - Truck/container ID
    - Arrival date/time
    - Pallet and module IDs
    - Photos showing damaged areas and packaging

Required for Warranty Claims:

- Completed claim form with description
- Model and quantity of affected modules
- Photos: labels, front/rear, and damage details
- Bill of Lading or container details if applicable

9. How to Identify Your Modules

Before unpacking your modules, verify that you have received the correct shipment by checking the shipping label and corresponding module details.

Pallet Shipping Label

The shipping label is located on the short side of each pallet and contains the following key information:

- Power Bin (Wattage)
- Pallet ID (e.g., LRA Number)
- Model Number
- Barcode and Serial Numbers for all modules included in the pallet

Once unpacked, **match the serial number and model label** on each module with the pallet's shipping label to confirm accuracy and traceability.



Module Frame Serial Number

Each INOX Solar PV module has a unique serial number that serves as its permanent identifier.

- A protected barcode is placed on the front, top-left corner, under the glass — it cannot be removed or damaged.
- Matching serial numbers are also printed on the frame and on the rear side of the module.

These identifiers ensure full traceability throughout transport, installation, and operation.



Model Label

The model label provides essential technical details for each module, including:

Model Number

Nominal Power Rating

Electrical Characteristics: Voc, Isc, Vmp, Imp

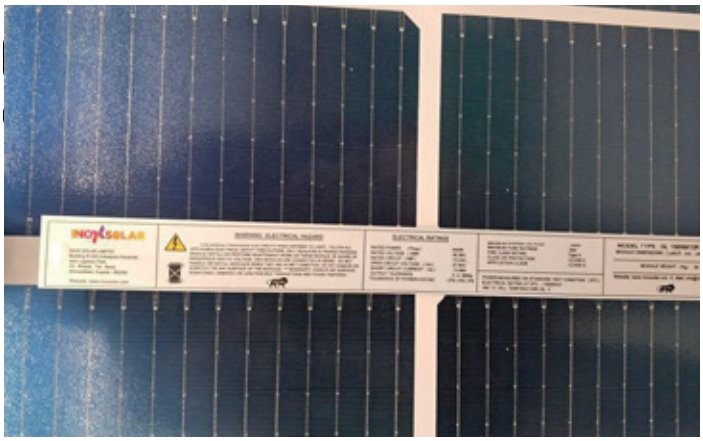
Maximum System Voltage

Certification Marks and Approval NumbersEach module carries three serial identifiers, located in the following positions:

Front (under glass)

Rear (top corner)

Side (on the frame)



10. How to Load Modules for Transit

INOX Solar follows industry best practices to ensure safe and efficient transportation of solar modules in all shipping configurations.

Standard Loading Pattern

Modules are loaded into shipping containers using a standardized pattern designed to:

- Prevent module movement during transit
- Protect against vibration and impact damage
- Maximize load efficiency and safety

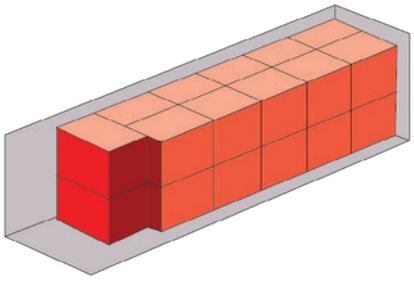
This pattern applies to all INOX Solar module types, including M10R and G12R formats.

Recommended Arrangement for Long-Distance Transit

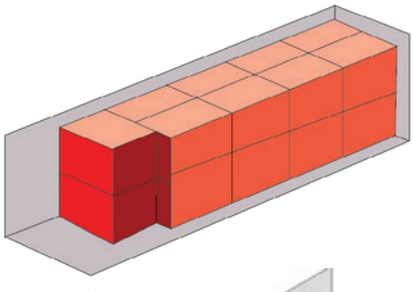
For 53-foot dry moving vans, INOX recommends the following transloaded arrangement:

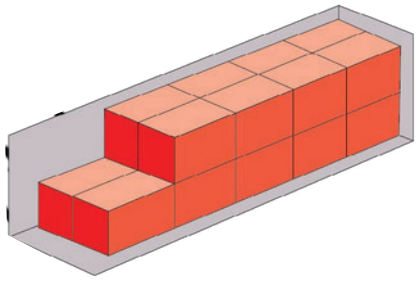
- No unsupported or free-standing pallet stacks
- Pallets positioned parallel to the length of the vehicle
- Gaps greater than 4 inches should be filled with airbags or spacers to prevent shifting during transport

These measures minimize handling stress and maintain the structural integrity of the modules during delivery.



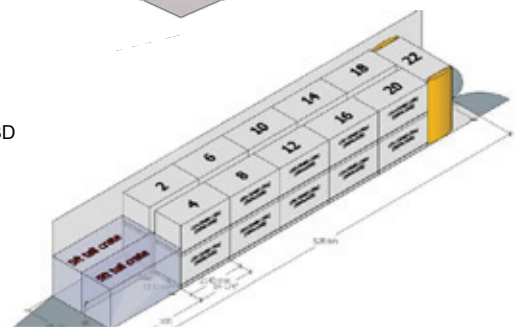
Hi-MO4 LR4-60HPH/HPB module:
26 pallets per 40'HC container





Hi-MO5 LR5-72HBD module:
18 pallets per 40'HC Container

72HBD



Disclaimer

This guide is advisory and for general guidance only.

Warranty claims are processed only upon written submission by direct INOX customers and confirmation by INOX personnel.

INOX assumes no liability for damages resulting from improper use or deviation from these procedures.
All information is subject to change without prior notice. Always refer to the latest version issued by INOX Solar.

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