PACKAGING & SHIPMENT SPECIFICATIONS

Applicable for the following REC solar panels:

- REC Alpha Pure Series
- REC Alpha Pure 2 Series
- REC TwinPeak 5 Series
- REC Alpha Pure-R Series
- REC Alpha Pure-RX Series
- REC N-Peak 3 Series
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</tr>
</tbody>
</table>

*Product only available in the USA
+ Product not available in the USA
INTRODUCTION

REC believes that the packaging of our products is just as important as the product itself. To ensure our solar panels arrive with our customers in as good condition as possible, REC takes every care to ensure a high quality level of packaging and uses international testing standards to ensure the panels reach their destination in the best condition. Except where specifically stated, the information given on the following pages is relevant to all modules in the product family named and is therefore applicable to all product variants, e.g., different colored frames, backsheets, and/or cell types. The images shown are a generic representation of the instructions regardless of color or exact design.

PALLET HANDLING

This document contains instructions concerning the use and handling of pallets of REC solar panels. Following these instructions will ensure that the panels are in the best condition upon arrival at the installation site. Misuse or failure to follow these procedures may lead to damage or injury, and may invalidate the warranty on the product.

QUALITY

REC performs a quality check on all pallets before and during loading. Vehicles will only be loaded if they are deemed safe and serviceable. During transportation, the pallets are stably loaded in protected containers with air bags between them to secure them in position. The freight company and driver are responsible for ensuring suitable load safety for each delivery vehicle. Vehicles without suitable load safety measures will not be loaded. Loading without the use of air bags or loading belts to secure the pallets may lead to damage to the pallet(s) and/or module(s) during transportation which may invalidate the warranty. If using loading belts to secure pallets, ensure these are correctly fitted as overtightening may cause damage to the modules or pallet(s).

RECYCLING

REC makes every effort to ensure the panel packaging is kept to a minimum and that environmentally-friendly materials are used wherever possible. This minimizes waste and discarded items to dispose of at the installation site. The wooden pallets can be re-used or recycled. The paper and cardboard packaging used on REC pallets can also be widely recycled and the protective wrapping and panel separating blocks are also recyclable in many areas. Please check for all applicable procedures and recycle all packaging and panels according to local guidelines and regulations. REC makes every effort to ensure environmentally-friendly packaging materials are used. Please recycle whenever possible.
**DELIVERY INFORMATION**

### Panels per pallet:
- 33

### Panels per 40 ft GP/high cube container:
- 792 panels

### Panels per 13.6 m truck:
- 924 panels

### Panels per 53 ft truck:
- 858 panels

**Note:**
Forks must be spaced a minimum of 500 mm apart.
Handlers must ensure that vehicles used for REC pallets can handle the specified load safely.

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**PACKAGING MATERIAL**

- **Pallet:** Wood
- **Foam pad:** Polyurethane Polyether Polyol
- **Top cover:** Corrugated cardboard
- **Corner protectors:** Core board - Kraft
- **Edge protectors and spacers:** HDPE

**Packaging Documentation**

- **Part No:** REC395AA Pure
- **Pallet No:** 1.3394796_AAAA

- **Modules per pallet:** 33
- **Panels per 40 ft GP/high cube container:** 792 panels
- **Panels per 13.6 m truck:** 924 panels
- **Panels per 53 ft truck:** 858 panels

**Note:**
- Pallets delivered stacked are not bound together.

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**STORAGE AND TRANSPORTATION**

- **Stacking for storage:** 2 pallets max
- **Stacking for transportation:** 2 pallets max

**Note:**
- When double stacking pallets, ensure the upper pallet sits securely on the edge protector to avoid damage to the lower pallet during transportation or handling.
- Specifications subject to change without notice.

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**MINIMUM FORK LENGTHS FOR TRANSPORTATION**

<table>
<thead>
<tr>
<th>Forklift</th>
<th>Single/Double stack only</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long side</td>
<td>1.2 m (47 in) Loading &amp; unloading of container only</td>
</tr>
<tr>
<td>Short side</td>
<td>1.5 m (59 in)</td>
</tr>
</tbody>
</table>

**Note:**
- Forklifts must be spaced a minimum of 520 mm apart.
- Specifications subject to change without notice.
**Pallet Dimensions**

**Length of pallet:** 1910 mm (75.2 in)
**Width of pallet:** 1090 mm (42.9 in)
**Height of single pallet stack:** 1205 mm (47.5 in)
**Height of double pallet stack:** 2410 mm (95 in)
**Pallet weight:** 40 kg (88.2 lbs)
**Stack weight (pallet + panels):** ca. 753 kg (1660 lbs)

**Delivery Information**

- Panels per pallet: 33
- Panels per 40 ft GP/high cube container: 792
- Panels per 13.6 m truck: 924
- Panels per 53 ft truck: 858

**Delivery Documentation**

Documentation is located on the short side of the pallet. Pallet documentation includes:

- Module flash data
- Serial number
- Product name
- Watt class

**Packaging Material**

- Pallet: Wood
- Foam pad: Polyurethane Polyether Polyol
- Top cover: Corrugated cardboard
- Edge protectors: Core board - Kraft
- Corner pieces and spacers: HDPE

**Packaging Documentation**

- REC420AA Pure 2
- Pallet No. L1234567, AAAA
- Panel label (rear)
- Panel documentation shows:
  - Module serial number
  - Module bar code
  - Manufacturing date
  - Electrical data (Vmp, Pmp)

**Storage and Transportation**

- Stacking for storage: 2 pallets max
- Stacking for transportation: 2 pallets max

**Minimum Fork Lengths for Transportation**

<table>
<thead>
<tr>
<th>Forklift/Jack</th>
<th>Single/Double Stack Only</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long side</td>
<td>1.2 m (47 in) Loading &amp; unloading of container only</td>
</tr>
<tr>
<td>Short side</td>
<td>1.5 m (59 in)</td>
</tr>
</tbody>
</table>

**Note:**

- When double stacking pallets, ensure the upper pallet sits securely on the edge protector to avoid damage to the lower pallet during transportation or handling.
- Pallets delivered stacked are not bound together.
- Forklift must be spaced a minimum of 520 mm apart.
- Handlers must ensure that vehicles used for REC pallets can handle the specified load safely.

**Note:** Specifications subject to change without notice.
DELIVERY INFORMATION

Panels per pallet: 33
Panels per 40 ft GP/high cube container: 858 (26 pallets)
Panels per 13.6 m truck: 924 (28 pallets)
Panels per 53 ft truck: 858 (26 pallets)

DELIVERY DOCUMENTATION

Documentation is located on short side of pallet. Pallet documentation includes:
- Module flash data
- Serial number
- Product name
- Watt class

PACKAGING MATERIAL

Pallet: Wood
Foam pad: Polyurethane Polyether Polyol
Top cover: Corrugated cardboard
Corner pieces and spacers: HDPE

PACKAGING DOCUMENTATION

Pallets delivered stacked are not bound together

STORAGE AND TRANSPORTATION

Stacking for storage: 2 pallets max
Stacking for transportation: 2 pallets max

Note: When double stacking pallets, ensure the upper pallet sits securely on the edge protector to avoid damage to the lower pallet during transportation or handling.

Note: Forklifts must be spaced a minimum of 520 mm apart. Handlers must ensure that vehicles used for REC pallets can handle the specified load safely.

MINIMUM FORK LENGTHS FOR TRANSPORTATION

<table>
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<td>1.5 m (59 in)</td>
</tr>
<tr>
<td>Pallet jack</td>
<td></td>
<td>X</td>
<td>Short side</td>
</tr>
</tbody>
</table>

Note: Specifications subject to change without notice

PALLET FRONT VIEW (DOUBLE STACKED)

PALLET SIDE VIEW (DOUBLE STACKED)

PALLET STACKING

PALLET SHIPMENT DIMENSIONS

Length of pallet: 1780 mm (70 in)
Width of pallet: 1150 mm (45.2 in)
Height of single pallet stack: 1220 mm (48 in)
Height of double pallet stack: 2440 mm (96 in)
Pallet weight: 39 kg (86 lbs)
Stack weight (pallet + panels): ca. 753 kg (1660 lbs)

PANEL IDENTIFICATION

Panel label (rear)

Panel front bar code

Panel identification:
- Module serial number
- Module bar code
- Manufacturing date
- Electrical data ($P_{mp}$)

MINIMUM FORK LENGTHS FOR TRANSPORTATION

<table>
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Note: Specifications subject to change without notice

PALLET STACKING

PALLET SHIPMENT DIMENSIONS

Length of pallet: 1780 mm (70 in)
Width of pallet: 1150 mm (45.2 in)
Height of single pallet stack: 1220 mm (48 in)
Height of double pallet stack: 2440 mm (96 in)
Pallet weight: 39 kg (86 lbs)
Stack weight (pallet + panels): ca. 753 kg (1660 lbs)

DELIVERY INFORMATION

Panels per pallet: 33
Panels per 40 ft GP/high cube container: 858 (26 pallets)
Panels per 13.6 m truck: 924 (28 pallets)
Panels per 53 ft truck: 858 (26 pallets)

DELIVERY DOCUMENTATION

Documentation is located on short side of pallet. Pallet documentation includes:
- Module flash data
- Serial number
- Product name
- Watt class

PACKAGING MATERIAL

Pallet: Wood
Foam pad: Polyurethane Polyether Polyol
Top cover: Corrugated cardboard
Corner pieces and spacers: HDPE

STORAGE AND TRANSPORTATION

Stacking for storage: 2 pallets max
Stacking for transportation: 2 pallets max

Note: When double stacking pallets, ensure the upper pallet sits securely on the edge protector to avoid damage to the lower pallet during transportation or handling.

Note: Forklifts must be spaced a minimum of 520 mm apart. Handlers must ensure that vehicles used for REC pallets can handle the specified load safely.

Note: Specifications subject to change without notice

MINIMUM FORK LENGTHS FOR TRANSPORTATION

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<tr>
<td>Pallet jack</td>
<td></td>
<td>X</td>
<td>Short side</td>
</tr>
</tbody>
</table>

Note: Specifications subject to change without notice

PALLET FRONT VIEW (DOUBLE STACKED)

PALLET SIDE VIEW (DOUBLE STACKED)

PALLET STACKING

PALLET SHIPMENT DIMENSIONS

Length of pallet: 1780 mm (70 in)
Width of pallet: 1150 mm (45.2 in)
Height of single pallet stack: 1220 mm (48 in)
Height of double pallet stack: 2440 mm (96 in)
Pallet weight: 39 kg (86 lbs)
Stack weight (pallet + panels): ca. 753 kg (1660 lbs)

DELIVERY INFORMATION

Panels per pallet: 33
Panels per 40 ft GP/high cube container: 858 (26 pallets)
Panels per 13.6 m truck: 924 (28 pallets)
Panels per 53 ft truck: 858 (26 pallets)

DELIVERY DOCUMENTATION

Documentation is located on short side of pallet. Pallet documentation includes:
- Module flash data
- Serial number
- Product name
- Watt class

PACKAGING MATERIAL

Pallet: Wood
Foam pad: Polyurethane Polyether Polyol
Top cover: Corrugated cardboard
Corner pieces and spacers: HDPE

STORAGE AND TRANSPORTATION

Stacking for storage: 2 pallets max
Stacking for transportation: 2 pallets max

Note: When double stacking pallets, ensure the upper pallet sits securely on the edge protector to avoid damage to the lower pallet during transportation or handling.

Note: Forklifts must be spaced a minimum of 520 mm apart. Handlers must ensure that vehicles used for REC pallets can handle the specified load safely.

Note: Specifications subject to change without notice

MINIMUM FORK LENGTHS FOR TRANSPORTATION

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</tr>
<tr>
<td>Pallet jack</td>
<td></td>
<td>X</td>
<td>Short side</td>
</tr>
</tbody>
</table>

Note: Specifications subject to change without notice
DELIVERY INFORMATION

| Panels per pallet: | 33 |
| Panels per 40 ft GP/high cube container: | 594 (18 pallets) |
| Panels per 13.6 m truck: | 660 (20 pallets) |
| Panels per 53 ft truck: | 792 (24 pallets) |

DELIVERY DOCUMENTATION

Documentation is located on short side of pallet. Pallet documentation includes:
• Module flash data
• Serial number
• Product name
• Watt class

PACKAGING MATERIAL

Pallet: Wood
Foam pad: Polyurethane Polyether Polyol
Top cover: Corrugated cardboard
Edge protectors: Core board - Kraft
Corner pieces and spacers: HDPE

STORAGE AND TRANSPORTATION

Stacking for storage: 2 pallets max
Stacking for transportation: 2 pallets max

Note: When double stacking pallets, ensure the upper pallet sits securely on the edge protector to avoid damage to the lower pallet during transportation or handling.

Note: Pallets delivered stacked are not bound together

MINIMUM FORK LENGTHS FOR TRANSPORTATION

<table>
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<tr>
<th>Forklift</th>
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</tr>
<tr>
<td>Short side</td>
<td>1.5 m (59 in)</td>
</tr>
</tbody>
</table>

Pallet jack

| Long side | X |
| Short side | 1.5 m (59 in) |

Note: Forks must be spaced a minimum of 500 mm apart

Handlers must ensure that vehicles used for REC pallets can handle the specified load safely.

Note: Specifications subject to change without notice

Packaging documentation:

- REC460AA Pure-RX
- Made in Singapore

Panel label (rear)

- Panel documentation shows:
  - Module serial number
  - Module bar code
  - Manufacturing date
  - Electrical data (IMP, PMP)

PALLET FRONT VIEW (DOUBLE STACKED)

PALLET SIDE VIEW (DOUBLE STACKED)

PALLET STACKING

PALLET SHIPMENT DIMENSIONS

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length of pallet</td>
<td>1780 mm (70 in)</td>
</tr>
<tr>
<td>Width of pallet</td>
<td>1240 mm (49 in)</td>
</tr>
<tr>
<td>Height of single pallet stack</td>
<td>1220 mm (48 in)</td>
</tr>
<tr>
<td>Height of double pallet stack</td>
<td>2440 mm (96 in)</td>
</tr>
<tr>
<td>Pallet weight</td>
<td>~40 kg (88 lbs)</td>
</tr>
<tr>
<td>Stack weight (pallet + panels)</td>
<td>ca. 812 kg (1790 lbs)</td>
</tr>
</tbody>
</table>

Package identification:

- Frame side bar code
- Panel label (rear)

PALLET FRONT VIEW (DOUBLE STACKED)

PALLET SIDE VIEW (DOUBLE STACKED)

PALLET STACKING

PACKAGING DOCUMENTATION

- Pallet No. 1 is the top module in a stack
- Pallet No. 33 is the lowest module in a stack
- Pallet documentation shows:
  - Module serial number
  - Module bar code
  - Manufacturing date
  - Electrical data (IMP, PMP)

REC ALPHA PURE-RX SERIES
DELIVERY INFORMATION

Panels per pallet: 33
Panels per GP/high cube container (40 ft): 792 (24 pallets)
Panels per 53 ft truck: 858 (26 pallets)

DELIVERY DOCUMENTATION

Documentation is located on short side of pallet.

Pallet documentation includes:
- Module flash data
- Serial number
- Product name
- Watt class

PACKAGING MATERIAL

Pallet: Wood
Foam pad: Polyurethane Polyether Polyol
Top cover: Corrugated cardboard
Edge protectors: Core board - Kraft
Corner pieces and spacers: HDPE

STORAGE AND TRANSPORTATION

Stacking for storage: 2 pallets max
Stacking for transportation: 2 pallets max

Note: When double stacking pallets, ensure the upper pallet sits securely on the edge protector to avoid damage to the lower pallet during transportation or handling.

Note: Pallets delivered stacked are not bound together.

MINIMUM FORK LENGTHS FOR TRANSPORTATION

<table>
<thead>
<tr>
<th>Forklift</th>
<th>Single/Double stack only</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long side</td>
<td>47 in (Loading &amp; unloading of container only)</td>
</tr>
<tr>
<td>Short side</td>
<td>59 in</td>
</tr>
</tbody>
</table>

Pallet jack

<table>
<thead>
<tr>
<th>Pallet</th>
<th>Long side</th>
<th>Short side</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>59 in</td>
<td></td>
</tr>
</tbody>
</table>

Note: Forks must be spaced a minimum of 20 in apart.

Handlers must ensure that vehicles used for REC pallets can handle the specified load safely.

Note: Specifications subject to change without notice.
These packaging specifications are applicable to the following products:
REC Twin Peak 5 Series   REC Twin Peak 5 Black Series

**Pallet shipment dimensions**
- Length of pallet: 1950 mm
- Width of pallet: 1090 mm
- Height of single pallet stack: 1205 mm
- Height of double pallet stack: 2410 mm
- Pallet weight: 40 kg
- Stack weight (pallet + panels): ca. 753 kg

**Delivery Information**
- Panels per pallet: 33
- Panels per GP/high cube container (40 ft): 792 (24 pallets)
- Panels per 13.6 m truck: 924 (28 pallets)

**Delivery documentation**
- Flash data list: On short side
- Serial number list: On short side
- Product name: On long side
- Watt class: On long side

**Packaging material**
- Pallet: Wood
- Foam pad: Polyurethane Polyether Polyol
- Top cover: Corrugated cardboard
- Edge protectors: Core board - Kraft
- Corner pieces and spacers: HDPE

**Storage and Transportation**
- Stacking for storage: 2 pallets max
- Stacking for transportation: 2 pallets max
- Note: When double stacking pallets, ensure the upper pallet sits securely on the edge protector to avoid damage to the lower pallet during transportation or handling.

**Packaging documentation**
- RECXXXTP5 Black
- Part no.: 6000000
- Pallet no.: L1234567_AAAA

**Minimum forklift lengths for transportation**
- Forklift
  - Long side: 1.2 m
  - Short side: 1.5 m
- Pallet jack
  - Long side: X
  - Short side: 1.5 m

**Note:**
- Forks must be spaced a minimum of 500 mm apart.
- Handlers must ensure that vehicles used for REC pallets can handle the specified load safely.

**Note:** Specifications subject to change without notice.

- Pallet No. 1 is the top module in a stack
- Pallet No. 33 is the lowest module in a stack
- Pallet documentation shows:
  - Module serial number
  - Module bar code
  - Manufacturing date
  - Electrical data $\left( V_{oc}, P_{mp}\right)$
- Made in Singapore