PV MODULES…
ARE THEY ALL THE SAME?
Are All PV Modules The Same?

- It is a perfectly valid question and you might be tempted to say “Yes”.
- But is it true?
- Let’s find out…
## Solar Cells

### Our EverExceed Modules

<table>
<thead>
<tr>
<th>Use solar cells from top-quality companies: Qcells (German)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Advantages:</strong></td>
</tr>
<tr>
<td>• High quality</td>
</tr>
<tr>
<td>• High reliability</td>
</tr>
<tr>
<td>• Stable performance</td>
</tr>
<tr>
<td><strong>PV modules will actually work reliably for 25 years and more!</strong></td>
</tr>
</tbody>
</table>

### Competitors

<table>
<thead>
<tr>
<th>Use cheap solar cells from the Chinese domestic market</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Disadvantages:</strong></td>
</tr>
<tr>
<td>• Low quality</td>
</tr>
<tr>
<td>• Low reliability</td>
</tr>
<tr>
<td>• Highly unstable performance</td>
</tr>
<tr>
<td><strong>PV modules will not work for 25 years!</strong></td>
</tr>
</tbody>
</table>
## Soldering

### Our EverExceed Modules

- Use fully-automatic soldering production line

**Advantages:**
- High consistency
- High quality
- High reliability

### Competitors

- Use manual soldering

**Disadvantages:**
- Low consistency
- Low quality
- Low reliability
## Encapsulation

### Our EverExceed Modules

Use top-quality thick EVA (Ethylene Vinyl Acetate) sheets and TPT (Tedlar Polyester Tedlar) sheets from Japan

**Advantages:**
- Water-proof and water vapour proof
- Acid-proof and alkaline-proof
- Anti ultraviolet radiation

PV modules can withstand bad weather for 25 years and more!

### Competitors

Use low quality thin EVA sheets and PET sheets

**Disadvantages:**
- Not water-proof and water-vapour-proof
- Not acid-proof and alkaline-proof

PV modules cannot withstand wet weather, temperature changes and start degrading in 2-3 years
# Sealing Glue

## Our EverExceed Modules

Use high quality special glue meant exclusively for the PV industry

**Advantages:**
- High acid resistance
- High alkaline resistance
- High reliability

PV modules will last for 25 years and more!

## Competitors

Use general purpose glue

**Disadvantages:**
- Low acid resistance
- Low alkaline resistance
- Low reliability

PV modules will start degrading in 3-5 years and age easily
# Junction Box

<table>
<thead>
<tr>
<th>Our EverExceed Modules</th>
<th>Competitors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use very good quality TÜV certified junction box with diode protection and IP65 rating</td>
<td>Use cheap junction box without diode protection and low IP rating</td>
</tr>
<tr>
<td><strong>Advantages:</strong></td>
<td><strong>Disadvantages:</strong></td>
</tr>
<tr>
<td>• Rust proof</td>
<td>• Not rust proof</td>
</tr>
<tr>
<td>PV modules will last for 25 years and more!</td>
<td>Junction box will start rusting in 3-5 years and modules will not last for 25 years</td>
</tr>
</tbody>
</table>
# Sealing Glue

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## Competitors

Use general purpose glue

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PV modules will start degrading in 3-5 years and age easily

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**CENERGY MAXPOWER**

**MAXPOWER MEANS MAX ROI!!**

www.cenergymaxpower.com
Aluminium Frame

Our EverExceed Modules

Use top quality, thick (35mm / 45mm / 50mm) frame from leading manufacturers which are strong with a sturdy inter-locking system.

Advantages:
- Very safe
- Can withstand 120+ km/hr winds

Competitors

Use thin (5mm / 10mm / 15mm) frames which are weak and with screw-on type of inter-locking system which is not sturdy

Disadvantages:
- Not safe
- Cannot withstand high speed winds
Net Result?

- EverExceed PV modules have:
  - High conversion efficiency with high reliability
    - Our conversion efficiency of 15-17% is one of the highest in the industry
  - Low mismatch of cell performance during encapsulation
  - Excellent performance under low lighting
  - Low hot spot effect
  - Low degradation under light exposure
Our EverExceed Modules

Module Construction

- Aluminum alloy frame
- Glass
- EVA
- Solar chip
- EVA
- TPT

MAXPOWER MEANS MAX ROI!!

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Our EverExceed Modules

Automatic Soldering Equipment

MAXPOWER MEANS MAX ROI!!

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Our EverExceed Modules

Production Equipment
Our EverExceed Modules

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Production Equipment
Our EverExceed Modules

EverExceed modules are the most reliable solar PV modules for off-grid and grid-tied residential and commercial solar systems.
So Are All PV Modules The Same?

• We don’t think so, and we hope you will agree
• Choose your PV modules wisely!
Thank you!