

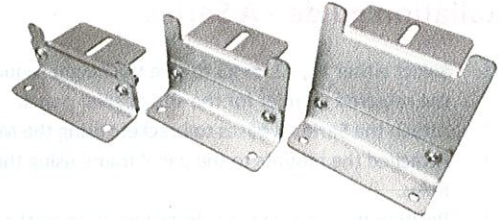


**AA Solar**  
& SUN POWER PLUS

## Adjustable Solar Panel Mounts

### AA Solar PV panel mounting brackets

- For RV's, Vans, Caravan, 5<sup>th</sup> Wheelers and boats
- Manufactured from marine grade Stainless steel
- Two-piece, height and angle adjustable.
- Fits all standard frame solar panels
- Allows easy panel removal for maintenance or cleaning



**'A' Series** – For screw fixing to all roof surface types, including rubber and aluminium sheet roof. Use 4 mounts on medium panels up to 100 watts, and 6/8 mounts on large panels up to and above 325 watts.

**'B' Series** – “No-drill” fixing for fibreglass and aluminium roofed vehicles using industrial grade 3M VHB™ adhesive tape. Use 6 mounts on medium panels, 100 to 150 watts, and 6/8 mounts on panels on larger panels 170 watts and over.

*[ Note: Always use the mounting holes provided by the panel manufacturer as a guide to the recommended number of mounts needed.]*

#### Features

Attachment

Adjustable height range;

#1 bracket

#2 bracket

#3 bracket

Adjustable angle range

Material

Base attachment area dimensions

#### A Series

SS self-tapping screws. 2 per base

35 – 50 mm

60 – 75 mm

90 – 105 mm

0° ± 5°

2 mm 3162B stainless steel

100 x 30 mm

#### B Series

Very high bond adhesive tape

35 – 50 mm

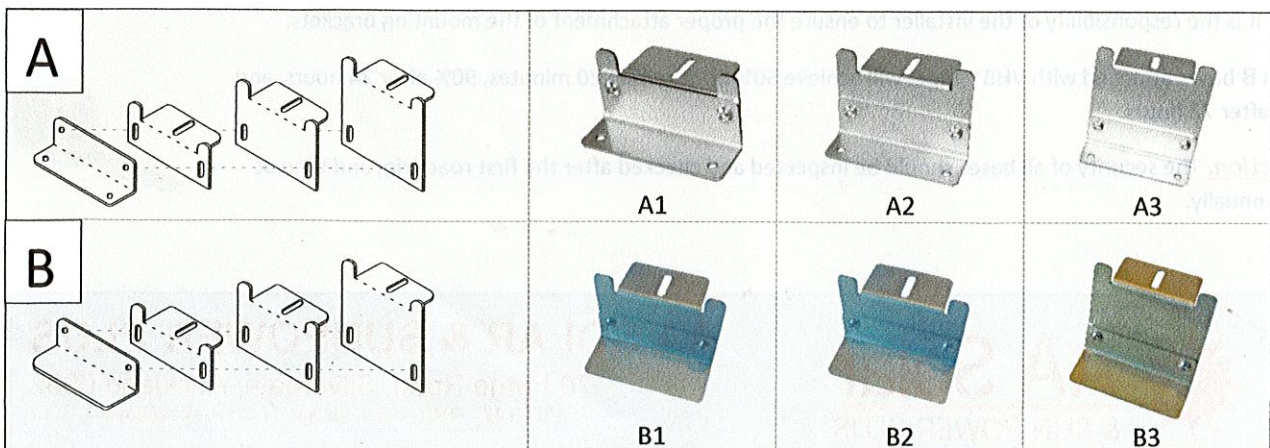
60 - 75 mm

90 – 105 mm

0° ± 5°

2 mm 3162B stainless steel

100 x 40 mm



**A and B Series** mounting brackets are easy to install, versatile and fit all sizes of AA Solar PV panels. They allow the solar panels to be easily removed for roof and panel maintenance and cleaning. Slotted screw holes allow bracket to pivot and seat firmly on curved or slopping surfaces. Bases may also be installed reversed to avoid other roof accessories or obstructions.

## Installation instructions.

**Carefully read and understand all assembly instructions before commencing the installation.**

Installation can be quick and easy using AA Solar adjustable mounting brackets for flat mounting solar panels on recreational vehicles.

The following installation instructions are provided as a guide and do not replace common sense or good trade practice.

### Installation guide - A Series

1. Select either #1, #2, or #3 to give the height required between the panel frame and the roof surface, (See adjustment range above) and the required number for the size of solar panel.
2. Attach the **Series A** bases to brackets using the M6 screws and locknuts and lightly tighten at their lowest position
3. Attach the mounts to the panel frame using the M6 x 15 screws, washers and nuts provided in the panel frame holes.
4. Position the panel in the selected position on the roof, mark and drill two pilot holes (3.5mm) for each of the bracket mounting holes.
5. If necessary, loosen the height adjusting screws to allow the base to sit flat on the roof surface.
6. Thoroughly clean the surface area where the brackets will attach using IPA cleaning pads.
7. Apply a liberal amount of sealant in and around the bracket positions, carefully place the panels in position and install a screw in each part way to hold in place. Do not tighten just yet. Fit the remaining screws but avoid overtightening so that some sealant remains under the mounting bracket. Some sealant should remain between the bracket and the roof to provide water tightness. Clean and tidy excess sealant with mineral turps.
8. Loosen the adjustment screws, measure and set the height of the panel and carefully tighten all adjustment screws.



### Installation guide - B Series - (For use on smooth fibreglass or gelcoat type roofs)

1. Select either #1, #2, or #3 to give the height required between the panel frame and the roof surface, (See adjustment range above) and the required number for the size of solar panel.
2. Attach the **Series B** bases to brackets using the M6 screws and locknuts and lightly tighten at their lowest position
3. Attach the mounts to the solar panel frame using the M6 x 15 screws, washers and nuts provided in the panel frame holes.
4. Position the panel on the roof making sure that all feet have a smooth flat surface to bond to. If necessary, loosen the height adjusting screws to allow the base to sit flat on the roof surface.
5. Mark the position of the feet and remove temporarily to allow cleaning of the surface.
6. Thoroughly clean the surface where the B Series feet will attach with IPA cleaning pads, or a mixture of 50% isopropyl alcohol and clean water applied with a clean cloth.
7. Carefully ensure that all dust, dirt, wax or polish is totally removed. *It is essential that this step is strictly followed, or a good permanent bond cannot be guaranteed.*
8. Use a second pair of hands to turn the panel over, make all electrical connection, and remove the red tape from the VHB™ tape.
9. Turn the panel back over and carefully position over the marked and cleaned position and slowly lower the panel onto the marked positions.
10. Firmly press down on all the feet to start the bonding process.
11. If desired, a bead of industrial silicone or Sika 291 Sealant may be run around the outside of the base to protect the VHB™ tape from dirt and the weather.



**Note:** It is the responsibility of the installer to ensure the proper attachment of the mounting brackets.

**Series B** bases attached with VHB™ tape, will achieve 50% bond within 20 minutes, 90% after 24 hours, and 100% after 72 hours.

**Inspection.** The security of all bases should be inspected and checked after the first road trip, and then at least annually.



**AA SOLAR & SUNPOWER PLUS**

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