

MONOCRYSTALLINE
SOLAR MODULES

Mounting Accessories for ECTIVE Solar Modules

Installation Instructions

ECTIVE

Table of Contents

Welcome!	1
Overview	2
General Notes	3
Tools Required for Assembly	3
Fastening the Mounting Elements to the Solar Module	4
Glueing the Mounting Elements to the Roof of the Vehicle	4
Disposal	7

Welcome!

Thank you for choosing the ECTIVE mounting accessories for solar modules! Please read this manual carefully before installing and using your solar module. Also make sure to read and follow the instructions for any solar panels and any other devices you connect to the solar module.

ECTIVE stands for power supply solutions at an unbeatable price-performance ratio.

Explore our brand and products at

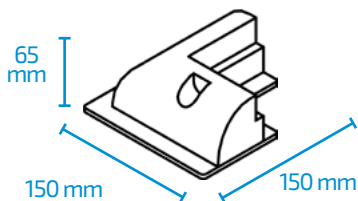
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Overview

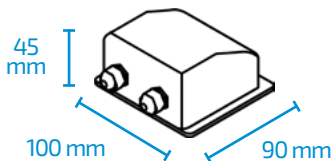
With these mounting profiles, solar modules of the ECTIVE MSP and SSP series can be easily and securely mounted - for example on the roof of a camper. The profiles are made of break-proof plastic and provide additional weight savings due to their stable but lightweight construction.

The dimensions of the elements are perfectly matched to the aluminum frames of our solar modules. Thus, they allow a secure hold and a clean installation of the panels.

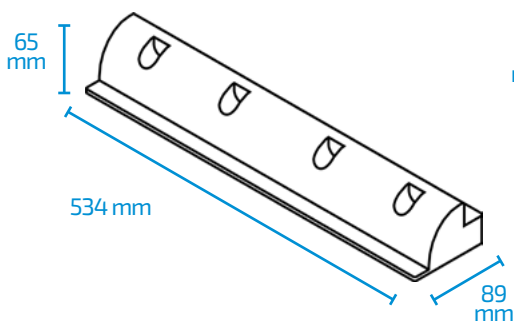
Mounting Corner



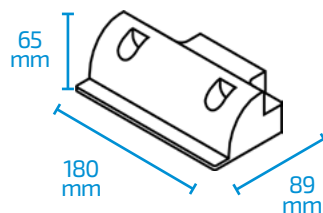
Roof Grommet



Long Mounting Bar



Short Mounting Bar



General Notes

- ECTIVE does not assume any liability for application errors or damage to the vehicle resulting from the installation. If disassembly is necessary due to a material defect, replacement can only be made for the product itself and no further liability can be accepted.
- The spoilers are ergonomically shaped to minimize flow resistance. This allows for optimal grip as well as reduced wind noise. For best

results, the spoilers should be oriented in the direction of travel. If such mounting is not possible, an additional pair of spoilers should be mounted in the direction of travel.

- Mounting hardware must always be installed flat and not subject to bending or tension.
- For optimum hold, clean the relevant surfaces before bonding, especially from oil and dust. Only use adhesives suitable for ABS and aluminum.
- As the screw connections can become loose due to vibrations while driving, please check them regularly, especially before and after long journeys, and tighten them if necessary.

Tools Required for Assembly

- Cordless screwdriver with torque adjustment
- Bit extension
- Cartridge press
- Measuring tape/meter stick
- drill bit: 5,5mm.
- Optional: self-drilling screws

Fastening the Mounting Elements to the Solar Module

- Copy the holes of the spoilers to the frame of your solar module.
- Drill the screw holes into the module frame using a 5.5mm drill bit. If your module has a hollow frame, drill through both walls. Alternatively, use self-drilling screws, e.g. from Würth. These are available from ECTIVE.
- Avoid drilling into the solar cells of your module!
- Screw the mounting elements to the frame of the solar module. Tighten the screws with a tightening torque of approx. 8-10Nm. Make sure that the screws are well sealed and that no moisture can penetrate into the interior of the mounting element.

Glueing the Mounting Elements to the Roof of the Vehicle

Important: Clean the relevant surfaces before bonding to ensure optimum strength of the bond. Ensure that there is no grease, oil, dust or other soiling on the bonding surface.

- Plan and mount the cable connection of the module before bonding. After bonding, depending on the panel model, the junction box may not be accessible.
- Place the solar module together with the screwed-on mounting elements in the intended position on the roof of your vehicle.
- Outline this position with tape or a felt-tip pen.
- Apply the adhesive to the mounting elements in accordance with the manufacturer's instructions below.
-

We recommend the following adhesive for bonding our mounting elements to the roof of your vehicle: **PETEC Montagekleber Kleben & Dichten weiß** (PETEC Mounting Adhesive Bonding & Sealing white).

PETEC mounting set (cleaning cloth, activator, wool wiper, white adhesive for bonding and sealing)

Tools and equipment required: Personal protective equipment, sandpaper (120 grit), cutter knife, hand squeegee gun, smoothing agent or water with detergent

- Before bonding, the vehicle, components, products and consumables must be tempered to the ambient temperature of +10 °C to +30 °C.
- Do not work with release agents or products containing silicone!
- Observe the technical and safety data sheets!

First clean the bonding surfaces (i.e. the roof cladding and mounting profiles) with a dry cloth or broom to remove coarse dirt. Then lightly sand these bonding surfaces with 120 grit sandpaper to ensure better adhesion. All areas that come into contact with adhesive should be sanded evenly.

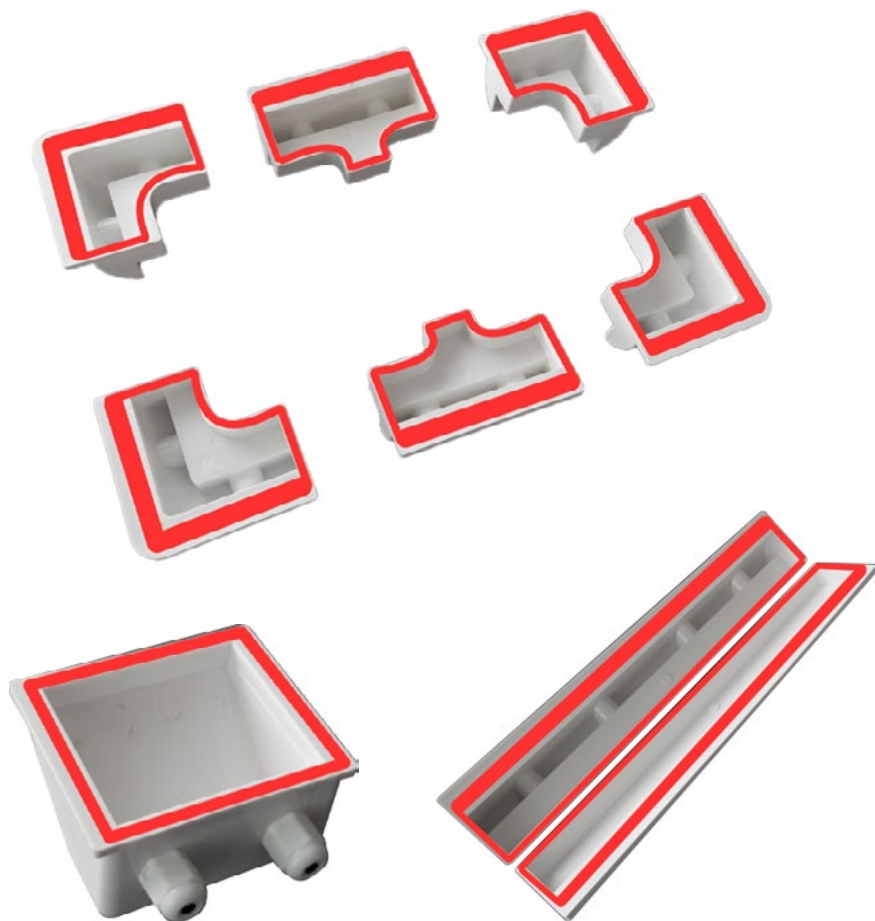
After sanding, use the PETEC cleaning cloth to thoroughly clean the bonding surfaces (roof cladding and mounting profiles). Observe the product instructions and the drying time.

Apply the PETEC Activator to the cleaned surfaces to increase the adhesive strength. Ensure that the activator is evenly distributed over the entire adhesive surface. Observe the product instructions and the drying time.

Apply PETEC mounting adhesive to one side of the adhesive surface of the mounting profiles (see areas marked in red in the illustration).

Position the mounting profiles precisely on the prepared areas on the roof cladding. Press the module lightly to spread the adhesive and achieve good adhesion.

Immediately remove any excess adhesive that has escaped from the sides. Allow the adhesive to cure at 23 °C for at least 24 hours. The vehicle must not be moved during this time.



If necessary, the plastic brackets must be additionally screwed or fixed with armoured tape during the 24-hour drying time until the adhesive has completely hardened.

After 24 hours, the joint can be grouted using the PETEC adhesive and cleaned up using smoothing agent or water with detergent. The adhesive should be spread carefully and excess material should be removed immediately.

Disposal

Please recycle or dispose of the packaging material for this product.
The german Electronic Equipment Act (ElektroG) regulates how to place electronic devices on the market, how to recycle and dispose of them.

ECTIVE

is a brand of

batterium GmbH

Robert-Bosch-Straße 1

71691 Freiberg am Neckar

Germany

Tel.: +49 7141 1410870

ECTIVE.DE