



CARBEST Power Panel Flex Modules Instruction Manual

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CARBEST
INNOVATIONS FOR MOBILE LIFE
Installation and operating instruction for Power Panel Flex Modules



Congratulations to the purchase of a CARBEST solar module.

When treated properly, you will have several decades of enjoyment with your CARBEST solar modules.

Please note the following instructions for the installation and operation of the solar modules. A non-compliance results to the cancellation of the guarantee and warranty.

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SAFETY

An incorrect completion during the installation or initial operation can lead to damages and as a result of this can endanger persons. For your own safety and for the protection of the solar module please consider the following tips:

- The valid regulations and safety instructions for the installation and maintenance of electrical systems and equipment have to be kept in mind.
- Due to the series connection of the modules, voltage levels may exceed the protective extra-low voltage.

- Event at lower lightning almost the full open-circuit voltage can be expected in the modules.
- While working at the modules, they must be covered or disconnected from the consumer load.

INSTALLATION

To achieve the highest possible energy output we recommend the following for all PV constructions:

- Alignment of the front module should face due south.
- Tilt angle between 30° and 60°
- For a good self-cleaning effect due to precipitation the tilt angle should have at least 20°.
- Avoid – even partly – shadowing effects. These can lead to significant losses in yield.
- The bundling or concentration of the solar radiation, for example by using lenses or mirrors is not permitted.
- Avoid folding of the module while unpacking and doing further mounting.
- Do not raise the modules at the cable.
- Mount the modules only at appropriated substructures. These must ensure that no mechanical voltages of the substructure will be transferred.
- Choose the right mounting position so that rain/water can drain without hindrance and no puddles can form on and around the solar panel.
- Apply the adhesive to the back of the module over the entire surface and glue the module on the roof. Important: Please avoid all kind of air bubbles between the roof and the solar panel. (Manufacturer's recommendation: Dekasyl MS-5 or Sikaflex 554 with Primer). Then seal up all sides up to the top edge of the panel.
- Hold a minimum distance of 2 mm between the module and the substructure, to balance the material expansions. Use only suitable adhesive or corrosion free screws.
- Make sure the polarity is correct when connecting the modules. Reverse polarity can lead to destruction of the protective diodes.
- Thereby please note the appropriate valid regulations.
- The modules have to be installed such – particularly along the cable that water flow towards the cable gland is prevented.
- For any maintenance and repair work produce a plan documenting the module installation layout, including serial number allocation and cable layout.

CARE AND MAINTENANCE

As time goes by the light transmission of the module front side and the power of the solar cells will be reduced by dirt. At strong dirt a cleaning of the front-mounted foil surface is recommended. To avoid the damage of the top, use plenty of water and a soft brush. Do not use strong cleaning agents and metallic objects! Occasionally inspect the cables for damage, corrosion and make sure they are securely tight.

WARRANTY

The warranty period is 36 months. Reimo reserves the right to rectify eventual defaults. The guarantee is excluded for all damages caused by faulty use or improper handling.


Liability limitations :

In no case Reimo will be reliable for collateral-, secondary- or indirect damages, costs, expenditure, missed benefits or missed earnings. The indicated sales price of the product is representing the equivalent value of Reimo's liability limitations.

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Documents / Resources

	<p>CARBEST Power Panel Flex Modules [pdf] Instruction Manual Power Panel Flex Modules, Panel Flex Modules, Flex Modules, Modules</p>
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References

-  [Reimo Shop - Campingzubehör, Ausbau Material & Ersatzteile für Wohnmobil, Campingbus, Wohnwagen | Reimo Shop](#)

Manuals+.