

Charging from the solar panel and from the 220-volt charger in your **COBRA** - trailer

Pictured is the charging system for one battery circuit with the solar charger or with the 220-volt charger, with charging cable for your plug in the cockpit and a plug at the rear, outside. Options showed are: A, B, C, H, I, S, T, U, V, Z.

There are many more options, like a buffer battery or a double solar regulator or a cable for your battery in the fin! You can find a picture of the solar panel in our brochure.



The „IN“ plug (U) for 220 (or 110) volts at the trailer's front. With cable (V) and plug. Applies VDE.



In the storage box at the trailer's front: The junction box (T), inside is the circuit breaker and the safety switch. On its side, the 220-volt outlet (S) and the Dryfit charger (Z). See on top the plugs (I) to switch from solar to net charging. Here you can decide if you want to charge from the net or from the Solar system. And if you want to use the charging cable inside or outside of the trailer.



The solar - regulator (B). Easy to see inside the front door.



The charging cable in the trailer (C). With safety plug (white). It comes with the right plug for your plane (silver).



The plug rear / outside. With 4 m charging cable and the right plug for your plane on the other end.

Use of the charging system:

Plug in the charging cable (C) in the cockpit and get it out the side-window.

Push the fuselage in the trailer and connect the cable (white plug) to the cable in the roof. Or, more comfortable: A built in plug in the root rib (fuselage side) makes it easier to connect the plane's battery to the system.

Good to know about solar chargers:

- We use STROBL solar parts only – the same manufacturer as on your plane's solar equipment!
- You can charge one battery circuit with the OS 1 regulator at a time.
- Charge two battery circuits at the same time with the OS3, up to 4 with the Suncatcher, also with buffer battery.
- Use a second solar panel if you charge more than one battery at the same time. Every additional battery circuit doubles the charging time.
- **Never try to charge more than one battery circuit from the same exit of the solar regulator or from the 220volt charger!**
- The only way to check the function of the solar system is with a battery connected. The system will show zero volts without a connected battery.

Check:

Measure the voltage of the disconnected battery (E.G: 12,0 volt). Connect the battery to the solar charger. After some minutes, the voltmeter will show about 13,0 volts. If the battery is in good condition, the voltmeter will show about 12,5 to 12,6 volts after a proper charging time when you disconnect.

- It is not possible to charge a deeply discharged battery from a solar charger.
- A second plug at the trailer's rear, outside, for charging the rigged plane is highly recommended. It allows to charge the plane's battery in the time between rigging and take – off.
- **Switch off all the instruments of your plane during charging!**
The planes instruments burn a lot more energy as the solar or net charger delivers!
An empty plane's and / or buffer battery may be the result!

Never leave an airplane battery with uninsulated plugs in the trailer! Recently some planes and trailers were fully burned as metal parts touched the contacts while sparks fired some cotton waste, sponges and a parachute nearby!

See many different options for charging systems in **COBRA** – trailers at the following pages!