

**WARNING!**

Touching of mains connector is dangerous after plug in this device. The device **MUST** be grounded to reduce risk of electrical shock. Ventilation should be insured for the device.

*Input and output connectors and indicators of the device:*



**Usage of the device, choosing of the operating mode:**

The device operates either as a battery charger or as a power supply. It detects automatically the presence of battery after connecting to the mains. If a battery is connected it operates as a battery charger, if not, it operates as a power supply. Pay attention to the proper ventilation of the device at installation!

1. **Buffered operating mode (Connect the battery first)**

Connect the output **BAT** to the battery and output **LOAD** to the load. The output voltage is 27,6 V at both contacts, max. output current is 3 A. At the design of the load please pay attention to the current of the charger, this is determined by the loadability of the charger. The total load at the outputs **BAT** and **LOAD** can be max. 3 A. Please pay attention to the right polarity! Plug the mains voltage to the input contact **AC IN 230 V 50/60 Hz**.

2. **Operation of deep discharge**

The device charges the battery automatically (according to I-U characteristic), there is no need to any intervention. In case of mains power cut the device prevents the deep discharge or failure of the battery by switching off the load at below 21 V battery voltage. After returning of power the charging process starts. If the charging voltage reaches 25 V on the battery the loading is reconnected. This solution is working with safe and avoiding possible trouble.

3. **Power supply mode (no battery is connected)**

Application example: supply of 24 VDC equipments

Connect the mains voltage to the input connector **230 V 50/60 Hz** without battery. Adjust the output voltage by potentiometer installed inside the device to 24 V measured by a multimeter. Max. loading current is 3 A. In this operating mode the charger and deep discharge functions are not in operation.

**The meaning of the LED signals. In power supply mode the battery signals do not work.**

| LED signal state                   | LED not light   |           |                            |
|------------------------------------|-----------------|-----------|----------------------------|
| Mains OK: <b>AC</b> continuous     | No power:       |           |                            |
| DC output OK: <b>DC</b> continuous | No DC output:   |           |                            |
| Battery OK: <b>BAT</b> continuous  | Battery is flat |           |                            |
| System overheating:                | <b>AC</b>       | <b>DC</b> | <b>BAT</b> flashing        |
| Power on self test:                | <b>AC</b>       | <b>DC</b> | <b>BAT + Fan</b> if exists |

**Specifications:**

Input: 230 V ±10% 50/60 Hz

Output voltage: 24 V to 27,6 V

Output current: max. 3 A

Insulation class: I.

Protection: IP 00

Max. ambient temperature: -10 °C...+50 °C

Dimensions (WxDxH): 143 x 78 x 38 mm

**Built-in protections against:**

Overloading, short-circuit, overheating, overvoltage, deep discharge, changed polarity at battery (by fuse)