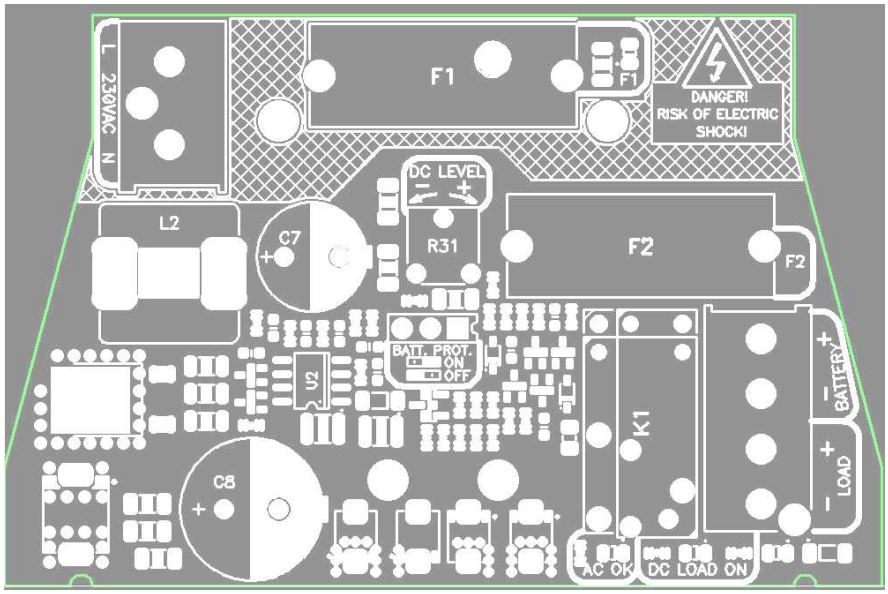
P2-BAT BUFFERABLE POWER SUPPLY
USER'S MANUAL

The layout of the device is as follows:



1. *Usage of the device*

The device can be operated either **UPS** or **PS** power supply mode. The output voltage in **UPS** mode is 13.8 V DC, in **PS** mode it can be adjusted by **DC LEVEL** potentiometer between 9 VDC and 13.8 VDC. Max. output current is 1.5 A. The device is double insulated no additional earthing is required. It has prevention of battery deep discharge which can be on and off by a jumper. For **PS** mode set the jumper in **OFF** position and for **UPS** mode use **OFF** position. Connect the output **BAT** to the battery and output **LOAD** to the load. Please pay attention to the right polarity! The max. output current can be 1.5 A. The charging current is $1/10^{th}$ of the the capacity of battery. Connect mains to connector **AC IN 230 V 50/60 Hz. ATTENTION! Touching of mains terminal after power connection (J1) and fuse (F1) is dangerous!**

2. *The meaning of the LED signals*

Mains OK: AC LED lights
DC Load Output OK: LOAD LED lights

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 10.5 V battery voltage. After returning of power the charging process starts. If the charging voltage reaches 12.5 V on the battery the loading is reconnected. This solution is working with safe and avoiding possible trouble.

Specifications:

Input: 230 V ±10% 50/60 Hz
Output voltage: **PS** 12 V DC to 13.8 VDC **UPS** 13,8V DC
Output current: max. 1.5 A
Insulation class: II.
Protection: IP 00
Working temperature: -10 °C…+50 °C

Built-in protections against:

Overloading (OLP)
Short-circuit (SCP)
Overheating (OHP)
Overvoltage (OVP)
Deep discharge (UVP)
Reverse polarity (RCP)