

Protection features of Prolock II

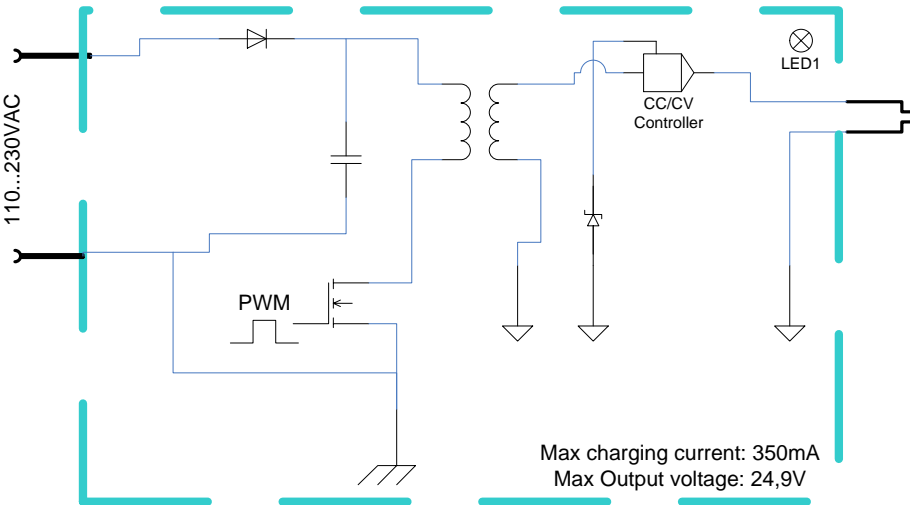
The new Prolock II, provides a wide range of new protections which should prevent the following failures:

-) Motor Overcurrent protection
-) Load side short circuit protection
-) Undervoltage protection
-) Accoustic Undervoltage alarm

New is the enhanced protection on the charger input side, like:

-) Protected against wrong polarity
-) Protected against short circuit on the charger input
-) Protected against discharging in case of a charger is not connected to the mains supply
-) Protected against overvoltage on the charger input side

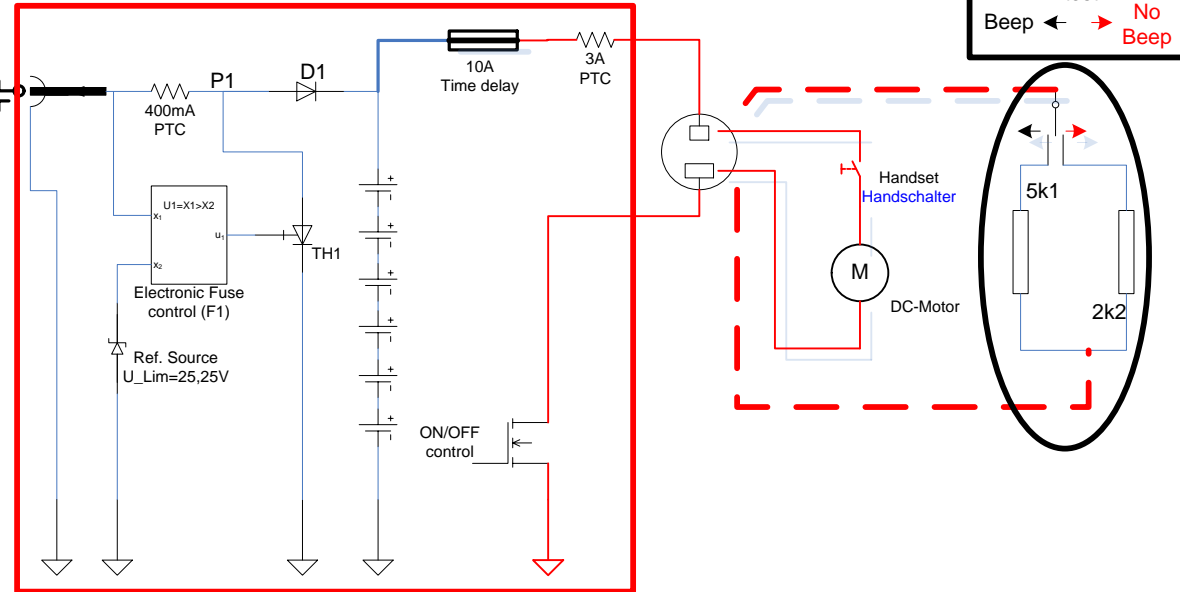
LCH635



Note: LED Function:

- LED1 Red : Accupack is in charging-process in constant current mode; 350mA
- LED1 Green : Accupack is charged and reached maximum Output voltage 24,9V
- LED1 Red blinking: Charger indicates a short circuit at it's' output or an overcurrent occurred

Prolock II



Function of electronic fuse (F1):

- .) The fuse will shorten any voltage source connected to the charger input which has an output voltage higher than 25,25V
- .) In case of an overvoltage, the high current Thyristor TH1 is turned ON (conducting) and pulls down the voltage at P1
- .) D1 prevents that the batteries are discharged in that failure case
- .) In case of an overvoltage detection, the Led on LCH635 will light up (flashing)

Reset of F1:

- .) Disconnect the charger from Powerpack
- .) Wait 5sec and connect again

Note:

- Which events can cause to trigger the electronic fuse:
-) Overvoltage because of using a wrong charger
-) Spikes caused by a defective contact
-) Static discharging between user and electrical System

Testcircuit
For standby power test
Beep ← → No Beep