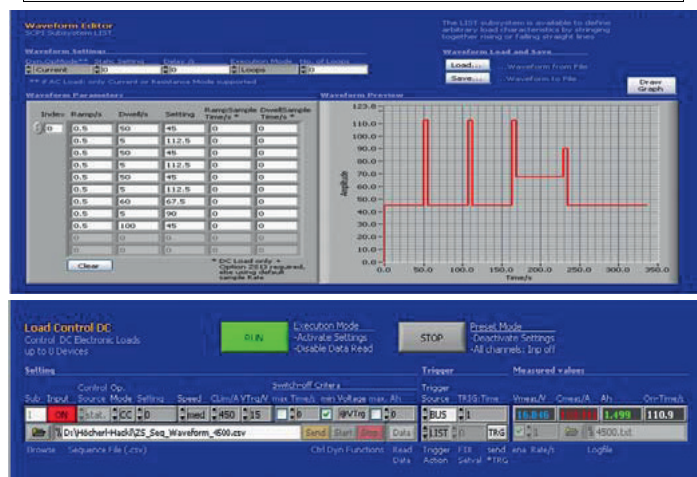
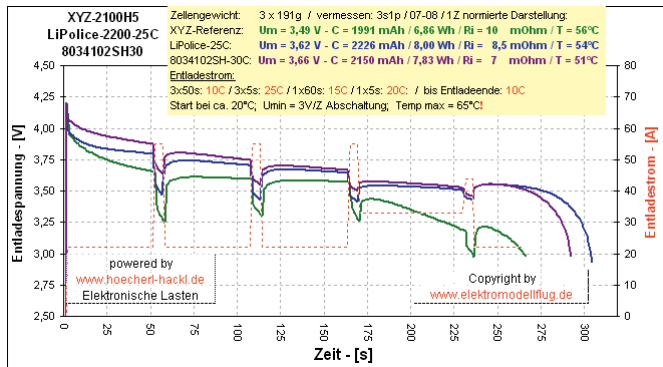
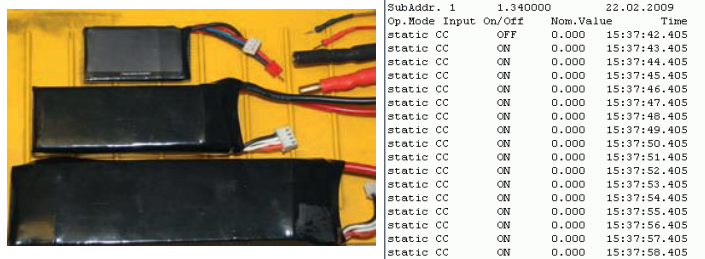


Customer Application #2

Creation of Comparable Measurement Diagrams for LIPO



Easy readable and comparable diagrams about LIPO accumulators shall be created with the aid of load measurements. Therefore, a load profile was developed which allows a specification or a comparison, respectively, of a 10C cell as well as a 35C cell or higher.

The test setup consists of an electronic load ZS4206 with option ZS13, the provided software tools, a laptop and a DUT. The DUT is not cooled during the load test. The accumulator is placed on a fireproofed underlay. The voltage is measured directly on the balancer connector by the sense lines.

The test setup consists of an electronic load ZS4206 with option ZS13, the provided software tools, a laptop and a DUT. The DUT is not cooled during the load test. The accumulator is placed on a fireproofed underlay. The voltage is measured directly on the balancer connector by the sense lines. In order to load the accumulators which sometimes are able to be loaded up to 35C an electronic load ZS4206 with option ZS13 Data Acquisition Tool and ZS01 Data Interface (RS232/USB) is used. This allows a control of the electronic load and a storage of the measured data via PC.

A manual handling of the electronic load is possible via the front panel. Load, voltage and timing limits are adjustable. The electronic load is able to discharge in four different modes: Constant power mode, constant voltage mode, constant current mode and constant resistance mode. An operation via the provided software is more comfortable. The electronic load can be connected to the PC either via USB, RS232 or GPIB. An acquisition of the data and the generation of the load waveforms occur internally. Even the sampling rate of each ramp is individually programmable. The logged data are saved in a *.txt file after the readout.

A data collection of voltage, current and time as well as the operating mode of the electronic load can be processed by any spreadsheet program.