

Customer Application #1

A heart for environmentally friendly drives



Since February 2008 H&H supports the project "OSCAR" AKASOL e.V. in Darmstadt, Germany.

"OSCAR" is a compact electrically engined city car with a length of 2.50 m and a width of 1.2 m. OSCAR stands for "Open Source CAR" and is a prototype for sustainable automotive technologies. AKASOL works as a private, independent and charitable development centre with selected industry partners on the development and testing of technologies required for serial production of light electric vehicles not yet being available at the market.

Our contribution is an electronic source-sink system (model PSLO) for controlled charging and discharging of the traction battery.

We will provide AKASOL the system for several years free of charge.

The PSLO system is placed in two 19" racks which contain all components required for the test of the traction battery. Four supplies from Delta Elektronika connected in parallel provide a maximum current of 360 A at a nominal DC voltage of 75 V. Our electronic load can absorb over 25kW in continuous operation. Therefore, it has the ability to simulate the high performance engine.

A data logging system from National Instruments™ manages the control and the data acquisition. Voltage, current and temperature are collected and stored.

The optimisation of the power supply for electric vehicles with attention to a long and safety operation is one of the engineers' main aim.