



GTEC UPS MODEL:

# **LIBRA PRO**

Battery test procedure

## **SERVICE DOCUMENT**

# Libra Pro: battery test procedure

The “battery test duration” and “battery test interval” are scheduled by the UPS control system and both are customizable by the user.

The battery test can also be started manually using the control panel on the front door of the UPS.

## **Main steps of the test:**

Step 1) The UPS checks the presence of the battery by lowering the voltage of the DC bus and by carrying out a current/voltage analysis.

Step 2) The battery is tested using the available inverter load. The DC bus voltage is lowered under the defined battery voltage, in order to taking from battery the entire current for need by the inverter, simulating a mains failure.

During this test the input contactor remains always closed allowing to come instantaneously back to mains feeding in case of fault of the battery.

Step 3) The duration of the battery test is 10 seconds (standard setting). During the discharging a current/voltage analysis is carried out taking also in count the status of charging of the battery. The recorded values are compared with the reference curves stored in the UPS microprocessor for evaluating the battery status.

Step 4) If the test is failed a warning message appears on the display of the UPS for signalling the problem to the user.

NOTE: Check of defective/burned fuses in the recharging circuit is available as option on request.