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METHOD AND APPARATUS FOR PREDICTING THE REMAINING CAPACITY AND RESERVE TIME OF A BATTERY ON DISCHARGE

Abstract

A highly accurate apparatus and method of predicting remaining capacity Q and reserve time t of a discharging battery to a selected end voltage is determined by an arrangement considering the open circuit voltage, battery voltage, battery temperature and its internal resistance. The remaining battery capacity Q is determined from the difference between the battery full charge open circuit voltage Eoc and the voltage loss due to the internal resistance of the battery IRint and the battery voltage on discharge divided by the battery temperature T, which is the temperature-corrected battery overvoltage.

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Fig. 4