

TITLE OF THE INVENTION: BATTERY MANAGEMENT SYSTEM, ELECTRIC VEHICLE AND POWER BATTERY PROTECTION METHOD

ABSTRACT

A battery management system, an electric vehicle, and a power battery protection method. The battery management system (10) includes a detection board and a control board (13). The detection board is connected to a vehicle-mounted power battery (20), and is configured for detecting a cell thermal runaway state of the power battery (20). The control board (13) is connected to the detection board, and includes a power supply chip (131) and a controller (132). The detection board is disposed independently of the control board (13), the detection board is connected to the power supply chip (131), and the power supply chip (131) is connected to the controller (132). The power battery protection method includes: detecting a cell thermal runaway state of the vehicle-mounted power battery (20); when the battery management system (10) is offline, generating a wake-up signal in response to detecting that thermal runaway occurs in a cell of the power battery (20); and waking up the battery management system (10) to operate via the wake-up signal and issuing a thermal runaway alarm, which can provide good safety protection for the power battery (20).

FIG. 1