

A battery management system includes a plurality of batteries each comprising a positive terminal and a negative terminal, wherein the positive or negative terminal of each of the plurality of batteries is coupled to the positive or negative terminal of another one of the plurality of batteries; a monitoring board connected to the positive terminal and the negative terminal of at least one ...

An intelligent battery management system and method, cutting-in at a new angle, optimizes rechargeable battery set to the best performance, which can overcome the backwards of all...

**ARTIFICIAL INTELLIGENCE BASED SMART ELECTRIC VEHICLE BATTERY MANAGEMENT SYSTEM** In the current decade, electric vehicles have attracted human community due to low cost of operation and maintenance but it can provide optimal performance only by smart management of battery. This invention focuses on machine learning technology for developing ...

**CROSS-REFERENCE TO RELATED APPLICATION.** This application is a non-provisional patent application of and claims the benefit to U.S. Provisional Patent Application No. 62/208,525, filed Aug. 21, 2015, and titled "Battery Management System for Electric Vehicles," the disclosure of which is hereby incorporated herein by reference in its entirety.

US20090146610A1 US12/331,717 US33171708A US2009146610A1 US 20090146610 A1 US20090146610 A1 US 20090146610A1 US 33171708 A US33171708 A US 33171708A US 2009146610 A1 US2009146610 A

A battery management system for a vehicle having an electrically powered motor that is powered by a plurality of battery cells includes an electrical system for providing voltage and current from the battery cells to an electrical motor. ... 2014-03-11 Priority to US14/203,617 priority Critical patent/US20140285936A1/en 2014-03-11 Assigned to ...

Justia Patents With Battery Or Cell Condition Monitoring (e.g., For Protection From Overcharging, Heating, Etc.) US Patent for Battery management system Patent (Patent # 10,797,499) Battery management system . Dec 21, 2016 - SZ DJI TECHNOLOGY CO., LTD. Systems, methods, and devices of managing a battery assembly used to power an object are ...

The battery thermal management system includes a battery pack, a circulation subsystem, and a heat exchanger. The system can optionally include a cooling system, a reservoir, a de-ionization filter, a battery charger, and a controller. ... 2020-04-23 Priority to US16/857,003 priority Critical patent/US10960785B2/en 2020-06-17 Assigned to JOBY ...

In electric vehicles (EVs), wearable electronics, and large-scale energy storage installations, Battery Thermal Management Systems (BTMS) are crucial to battery performance, efficiency, and lifespan.

Distributed feedback control system for monitoring battery modules and attendant hardware of wireless battery management systems. The system allows remote monitoring of battery modules and packs without manual connection. It uses a manager device that selects modules to collect data from.

It offers a safe and potentially low-cost management system for high-voltage battery systems, including lithium-ion (Li-ion) battery systems that are used in electric vehicles and other next-generation renewable energy applications. ...

A battery thermal management system and method are provided. The system includes: a battery, a battery thermal exchange structure, a pump, at least one first valve and one or more thermal adjustment components, wherein the battery thermal exchange structure includes a thermal exchange channel passing through the battery, and has a first port and a second ...

The present disclosure relates to a distributed battery management system. The system includes a master module and at least one slave module. Each slave module manages a corresponding of battery pack connected in series in a power circuit. ... 2018-02-15 Publication of US20180048182A1 publication Critical patent/US20180048182A1/en 2019-10-08 ...

?Patent diagram of Tesla battery management system. For electric vehicles, battery management systems may encounter mechanical vibrations and shocks, varying ambient temperatures, multiple power ...

A battery management system for management and control of a plurality of rechargeable batteries connected in series. A programmed central processing unit communicates with a plurality of battery modules and a bulk charger. ... 1996-12-05 Priority to US08/761,002 priority Critical patent/US5701068A/en 1997-12-23 Application granted granted Critical

A battery management system includes a plurality of balancing resistors that are respectively connected to a plurality of cells that are connected in series to each other, and that respectively form a part of a balancing discharge path of each of the cells, a plurality of balancing switches configured to respectively control a flow of balancing current of the balancing discharge path, a ...

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