Energy storage liquid cooling unit patent

Provided in the present application is an immersion liquid-cooling energy storage system. The immersion liquid-cooling energy storage system comprises an energy storage module, a thermal management module, a heat dissipation module, a pipeline system and a valve body assembly, wherein the energy storage module comprises a battery ...

In the flow distribution subsystem, the plurality of heating units have the same liquid passage length. The energy storage system uses the above liquid cooling system. In the ...

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A liquid cooling unit is arranged at an end surface of a casing of a energy storage container. The liquid cooling unit includes a cabinet having an accommodation space and a heat dissipation assembly arranged in the accommodation space. The cabinet includes a first surface adjacent to the end surface and a second surface adjacent to a side surface of the container casing and ...

The circulating coolant absorbs heat from the energy storage components and carries it away, effectively dissipating the heat. 3. Working Principle Under the action of a circulation pump, the coolant flows across the surface of the energy storage components, absorbs heat, and then returns to the cooling unit for dissipation. After cooling, the ...

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In one form, there is provided a system for heating and cooling a liquid, the system including: a liquid cooling unit having a heat output component, and a first liquid heater configured to hold ...

The liquid cooling energy storage electric box composite heat management system for heat pipe to radiate the pole ear is characterized by comprising a battery shell, an upper...

heating units. In the prior art, air cooling, liquid cooling, or a combination of air cooling and liquid cooling is used to dissipate heat from the heating units. However, both air cooling and liquid ...

The immersion cooling unit of claim 1, wherein the electrical component is selected from the group consisting of a high-capacity energy storage devices, electronic devices, datacenter servers, insulated-gate bipolar transistor (IGBT) devices, telecommunication infrastructure, military electronics, televisions (TVs), cell phones, monitors, drones, automotive ...

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In one form, there is provided a system for heating and cooling a liquid, the system including: a liquid cooling unit having a heat output component, and a first liquid heater configured to hold and heat a liquid. The first liquid heater is configured to retain a first body of the liquid about the heat output component such that the liquid is ...

The invention relates to a multi-system energy storage liquid cooling unit, which comprises a liquid cooling circulation loop, at least two refrigeration loops and corresponding plate...

The energy storage system adopts an integrated outdoor cabinet design, primarily used in commercial and industrial settings. It is highly integrated internally with components such as the energy storage inverter, energy storage battery system, system distribution, liquid cooling unit, and fire suppression equipment. Through liquid cooling for ...

The heat exchanger is configured to cool heated liquid received from the liquid inlet and supply cooled liquid to the liquid outlet using the thermal energy stored in the storage tank via the refrigerant loop. According to some embodiments, a regasification and cold thermal energy storage system comprises an ice battery and a ...

The utility model provides a pair of submergence formula liquid cooling energy storage system, include: a cooling tank containing a cooling liquid therein; the battery module is...

Hydrogen evaporating in a liquid hydrogen tank is fed to a fuel cell generating electrical energy used to drive a cooling unit which cools the tank. US4386309A - Storage of liquid hydrogen - Google Patents Storage of liquid hydrogen Download PDF Info Publication number US4386309A. US4386309A US06/271,265 US27126581A US4386309A US 4386309 A US4386309 A US ...

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