

Categories

Electronics, Devices, and System

Solution

Our invention provides a fast charging with high-capacity energy storage specialize in transportation application.

Technology & Applications

With an increasing worldwide demand for energy particularly for transportation which requires high-capacity energy storage, there is a need for an ultra-capacitor that has high power density with shorter charging time and longer life-cycle.

Graphene-based ultracapacitor has high power density due to its high surface area and good electrical conductivity of graphene material. Further, the graphene-based ultracapacitor is capable of charging and discharging over a short 5 period of time and further maintaining the cycle in over tens of thousands of charging cycles.

Advantages

The present invention provides a graphene-based ultracapacitor energy storage pack with a significant improvement in power density as well as thermal heat regulation by means of heat regulator to preserve performance of the ultracapacitor energy storage pack.

Intellectual Property

Patent: PI2018702444

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