

Sep 1, 2024 Research and economic evaluation on novel pulse superconducting magnet power supply topology with energy storage for fusion devices

Jul 15, 2024 The efficiency of photovoltaic (PV) solar cells can be negatively impacted by the heat generated from solar irradiation. To mitigate this ?

Aug 15, 2024 The lithium-ion battery energy storage system currently widely used faces a problem of rapid degradation of electrical performance at very low temperatures (such as -40°C ?

Sep 20, 2016 When the primary stored electrical energy is transferred to a secondary stored energy through a switching device, the pulse width ?

Sep 19, 2024 Energy sectors increasingly prioritize renewable resources to meet climate objectives; thus, integrating pulse storage systems can enhance grid reliability and energy ?

Apr 28, 2021 Materials exhibiting high energy/power density are currently needed to meet the growing demand of portable electronics, electric ?

Sep 14, 2024 Addressing these challenges is vital for the broader adoption and reliability of pulse energy storage solutions in the energy sector. In summary, pulse energy storage ?

Mar 27, 2025 This article based on Knowles Precision Devices blog explains use of capacitors and in pulse forming networks and how it ?

Pulse power energy storage technology The Pulsed Power and Energy Laboratory has interest in studying pulsed power sources and loads, high voltage dielectric breakdown, electrochemical ?

Pulsed-Power Systems describes the physical and technical foundations for the production and application of high-voltage pulses of very high-power ?

Nov 15, 2025 As energy storage becomes a critical component of the global transition to renewable power, choosing the right device provider is more important than ever. From grid ?

Feb 1, 2019 Gaining insight into the effects of pulse charging on the performances of energy storage

devices is very important for the practical applications of triboelectric nanogenerators ?

Oct 26, 2023 Inductive energy storage devices, also known as pulse forming networks (PFN), are vital in the field of high-power pulsed ?

Jan 8, 2025 A high-power pulse power supply control system with embedded technology as the core can achieve unified and coordinated control of various components, enhancing the ?

Sep 14, 2024 Addressing these challenges is vital for the broader adoption and reliability of pulse energy storage solutions in the energy sector. In ?

Mar 19, 2025 This requires the development of miniature, low-power pacing chips with energy storage and electrical pulse transmission capabilities as ?

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