

March 6, 2023

PULSED POWER: DEFINITION AND INDUSTRY APPLICATIONS

Blog Post

Pulsed power is an innovative technology that involves the use of short but powerful electrical pulses to enable a variety of cutting-edge applications in numerous industries. Its applications range from automotive manufacturing and food processing to military equipment and medical treatments.

As a leading supplier of high-voltage products, Berkeley Nucleonics specializes in providing high-quality pulsed power solutions to customers in industries such as medical, military, research, energy, and more. Our high-voltage pulse generators are reliable and flexible, making them ideal for applications that require longer pulse lengths and higher voltages.



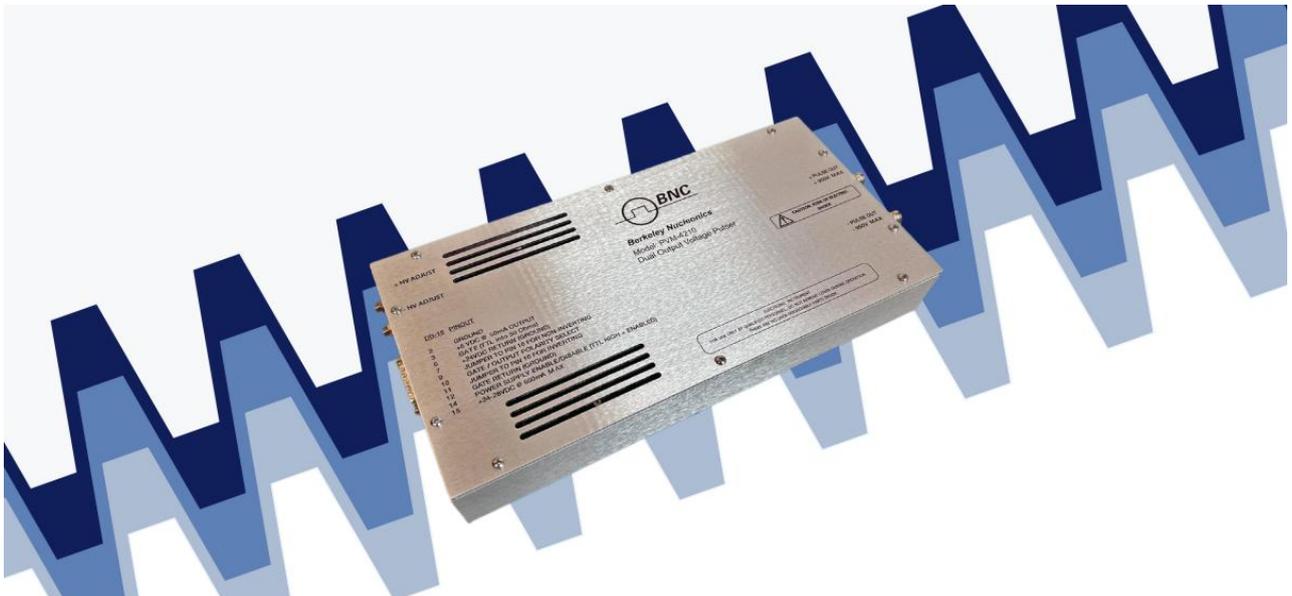
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The science of pulsed power involves the collection of technology, experimental tools, and capabilities that explore concentrations of electrical energy in time and space and how this energy can be harnessed for multiple applications. To create high-energy pulses, low-power electrical energy is stored in a bank of capacitors and released as short pulses with a much higher power. The pulse duration is increasingly shortened to billionths of a second long. As the pulse is shortened at a steady pace, the power increases, resulting in a very short but potent burst of energy.



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Pulsed power finds applications in a wide range of industries and technologies, including photomultiplier tubes and image intensifiers, UV light protection, electroporation, dielectric barrier discharge, atmospheric pressure plasma jets, time of flight, beam steering, Pockels cells, microchannel plates, Q-switches, acoustic transducers, industrial plasma generation, and X-ray generation for medical diagnostics and treatments.



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Pulsed power is an exciting technology that continues to find new and innovative applications across industries. High-voltage pulse generators play a crucial role in harnessing this energy and delivering the necessary power for specific applications. At Berkeley Nucleonics, we are committed to providing high-quality pulsed power solutions to our customers to help them achieve their goals.