



High voltage power supply for portable devices

What is a high-voltage power supply?The term "high-voltage power supply" refers to a DC power supply that outputs high voltage. At Matsusada Precision, we classify programmable power supplies with meters that can output voltages of V or more and embedded power supply modules that can output voltages of several hundred volts or more as high-voltage power supplies.

What are the different types of high-voltage power supply modules?Most high-voltage power supply modules are DC input type low-voltage DC to high-voltage DC converters (DC-HVDC). The following three types can be classified by the method of controlling the output voltage. The proportional type controls the output voltage according to the voltage of the input DC power supply.

What is a bench-top high-voltage power supply?Our bench-top high voltage power supplies range from 1kV to 30kV voltage and 3W to 200W power. Rack-mount high-voltage power supplies are power supplies that are housed in a 19-inch wide rack cabinet. This category includes ultra-high voltage and high-power high-voltage power supplies.

What is a portable DC power supply?Such a system requires portable DC power supplies providing voltages up to 50 kV but with the feed from low-voltage batteries. Taking into account these requirements, a portable DC power supply has been developed on the basis of silicon carbide (SiC) power device technology.

What is a high voltage power supply (hvps)?Analog Technologies offers a comprehensive range of high voltage power supplies (HVPS) designed for electronic engineers seeking reliability, precision, and efficiency. Our AC-DC and DC-DC modules deliver output voltages from 100V to 50kV, with power ratings up to 10kW and ultra-low ripple (0.02% RMS).

How does a high voltage power supply work?In high voltage power supplies the output stage is capacitive by nature, which results in stored energy. During an arc discharge, the stored energy inside the power supply is quickly dispersed through an internal limiting resistance and carries high peak currents through the load.

Portable DC High Voltage Power SupplyHigh Voltage DC portable power supplies are compact, mobile devices designed to deliver high-voltage direct current (DC) for various applications. These power supplies are engineered with advanced technology to

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