

Variable Energy Pulse Charge/Discharge Unit

Variable Energy Pulse Charge/Discharge Unit is a complete charge and discharge unit capable of delivering pulse energy in the range of 2 to 6 Joules through the load. Basic building blocks of the unit include **High Voltage Power Supply Module, High Voltage Capacitor, High Voltage Switch, High Voltage Trigger Circuit** and **Auxiliary Power Supplies** – all contained in one unit. The charging unit operates from input DC voltage in the range of 18 – 36 VDC. The output is brought out through a high voltage connector. The load can be connected across the connector. The energy stored in capacitor can be made to discharge through load on application of a TTL/CMOS/28Volt trigger pulse. The unit has **Arming/Disarming** feature to guarantee safe operation during testing. Additionally, **Voltage Monitor Terminals** are provided on the panel to monitor status of energy storage capacitor voltage.



Specifications*

- Delivered Energy : 2 to 6 Joules (User Selectable)
- Peak Current Pulse Amplitude : Not less than 3 kA
- Current Pulse Width : $2 \pm 0.5 \mu\text{s}$
- Input Voltage Range : 18 – 36 VDC
- Operating Temperature Range : -40°C to $+85^{\circ}\text{C}$
- Input Trigger Pulse : TTL/CMOS/28 Volt pulse

**Customized solutions are offered as per user-defined pulse discharge parameters*

Features

- Input trigger pulse optically isolated from high voltage circuitry for enhanced immunity to spurious triggering
- Built-in Arming/Disarming Circuit
- Voltage Monitor with Digital Display
- Battery Operation for Field Use



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