Precision pulse control in a user friendly package

Key Features

- Isolated/floating output can be biased with respect to the load
- Arbitrary square wave generation
- Clean square wave output with fast rise/fall times
- Turnkey system with front panel and/or remote pulse control
- Independently user adjustable output voltage, duty cycle, and pulse repetition frequency
- Drives a wide variety of loads, including plasma discharges

Sample Specification

Duty cycle, pulse repetition frequency, and output voltage are all independently, user adjustable from zero to maximum value. Maximum output voltage and power are set at time of order. Below are sample specifications. Please contact EHT to discuss your application's specific needs.

- Frequency: DC - 100 kHz (higher burst frequency possible)
- Duty Cycle: 0 - 100 %
- Square wave rise/fall time: 100 ns - 1 us (load dependent)
- Maximum output voltage options: 1, 2.5, 5, or 10 kV
- Maximum power options: 100, 500, 1000, or 5000 W
- Current source only or source & sink options available

Sample Waveforms
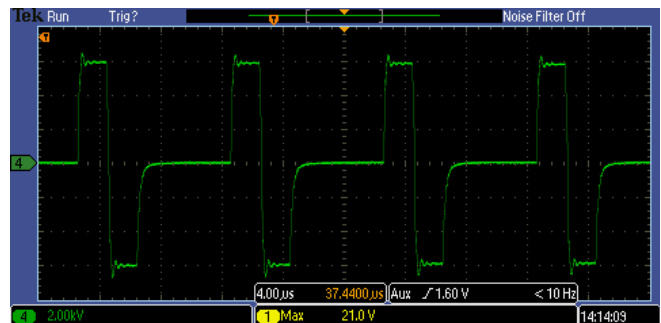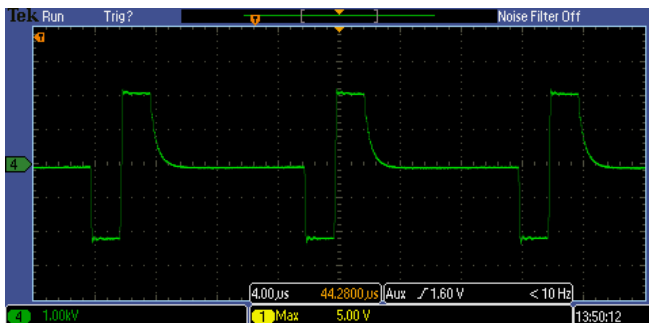
Bipolar 2 μs pulses with floating output. Left: 2 kV into 6 kΩ at 70 kHz. Right: 6 kV into 2.5 kΩ at 100 kHz.
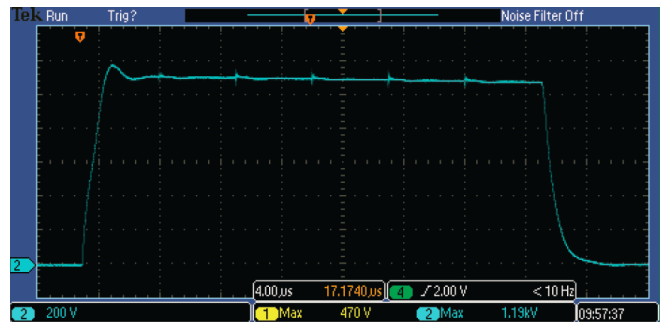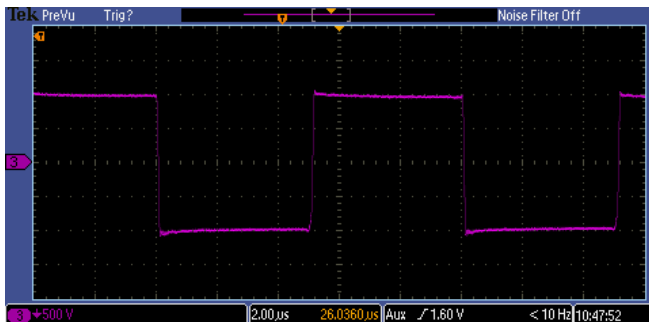
Isolated output can produce a wide range of pulse parameters with a single pulser. Left: 1 kV, 5 μs, 100 kHz into 6 kΩ. Right: 1.1 kV, 30 μs into 250 Ω, single pulse.

Nanosecond Pulsers

For pulse widths shorter than 500 ns, check out EHT's Nanosecond Pulser product line. The pulsers feature independently user adjustable output voltage, pulse width, and pulse repetition frequency. More information is available at