

HiPG[®]

High Current Pulse Generator MODEL SHI-2002-C



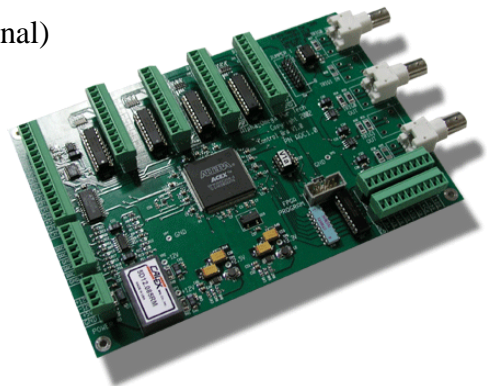
Specification:

Voltage:	4.5 kV
Current:	100 A*
PRF:	10 Hz*
Pulse Width:	1us – 10us
Rise Time:	< 400 ns
Fall Time:	< 400 ns

High Current Pulse Generator (HiPG)

The HCPG is an all solid-state direct switched high current pulse generator capable of delivering 100 amps at 4.5 kV. The system will operate at 10 Hz continuous pulse operation. The pulse width is continuously adjustable between 1us and 10us. Other key specifications shown below:

- 6 outputs selectable via front panel or remote interface (optional)
- Remote / Local control of output voltage
- Remote / Local keyed switch for lockout
- High voltage ON/OFF indicators on front panel
- High speed voltage and current output diagnostics
- Sync output for scope triggering
- Bench top or rack mountable
- NEW USB HV control (adjust output voltage via USB port)



FPGA Based Control Board



3701 Hawkins St NE
Albuquerque, New Mexico 87109
(505) 341-4828 / (505) 341-4829 FAX

DETAILED SPECIFICATIONS

Output Voltage: 4.5 kV Max into open circuit
4.0 kV at 20 AMPS

Pulse Repetition Rate: 10 Hz at 20A and lower current
1 Hz at 100A



3701 Hawkins St NE
Albuquerque, New Mexico 87109
(505) 341-4828 / (505) 341-4829 FAX

Example Output Waveforms

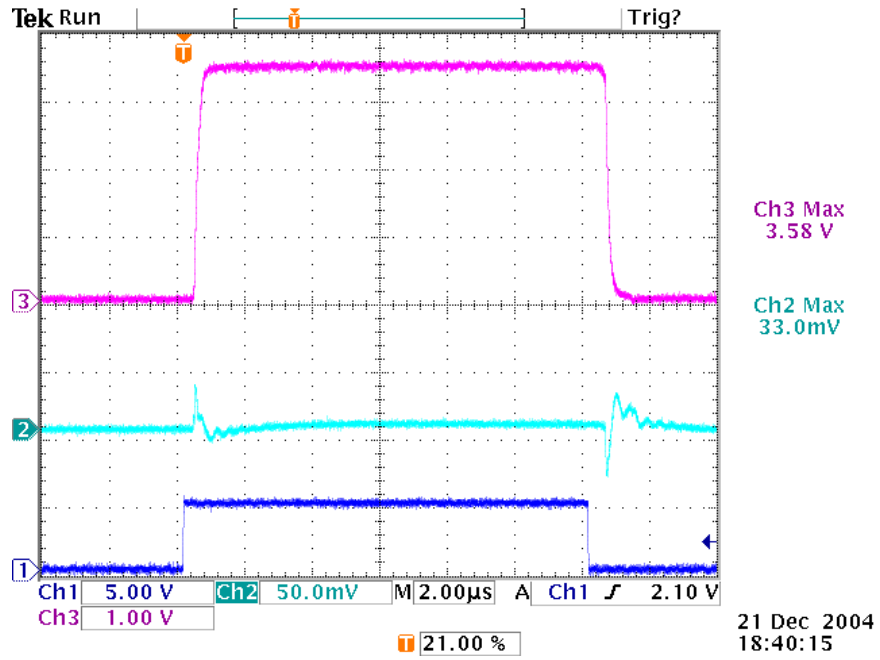


Figure 1: Output waveforms. Open circuit voltage (3) and current (2). Sync pulse shown (3). Voltage 3580 volts into open circuit.

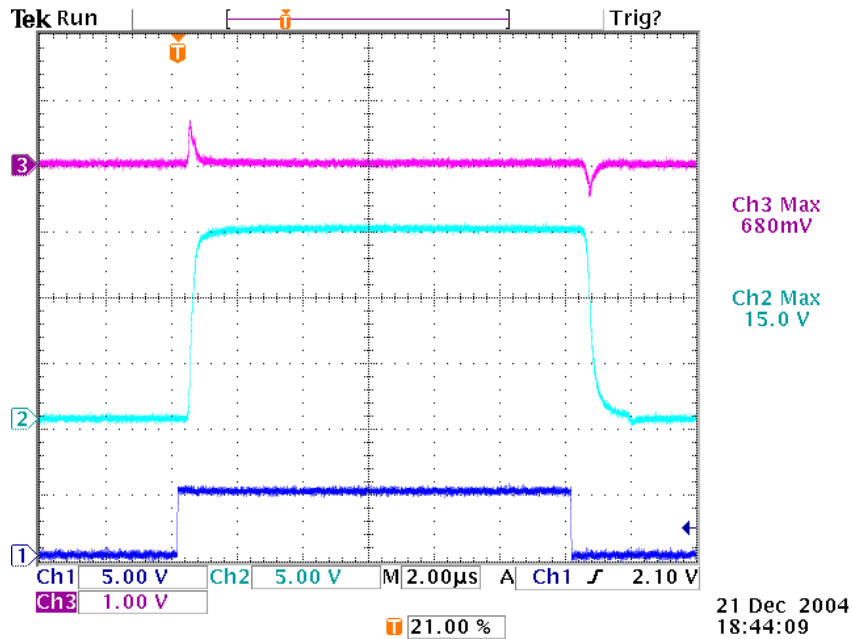


Figure 2: Output waveforms. Short circuit voltage (3) and current (2). Sync pulse shown (3). Current 150 amps into short circuit.