GMW Associates

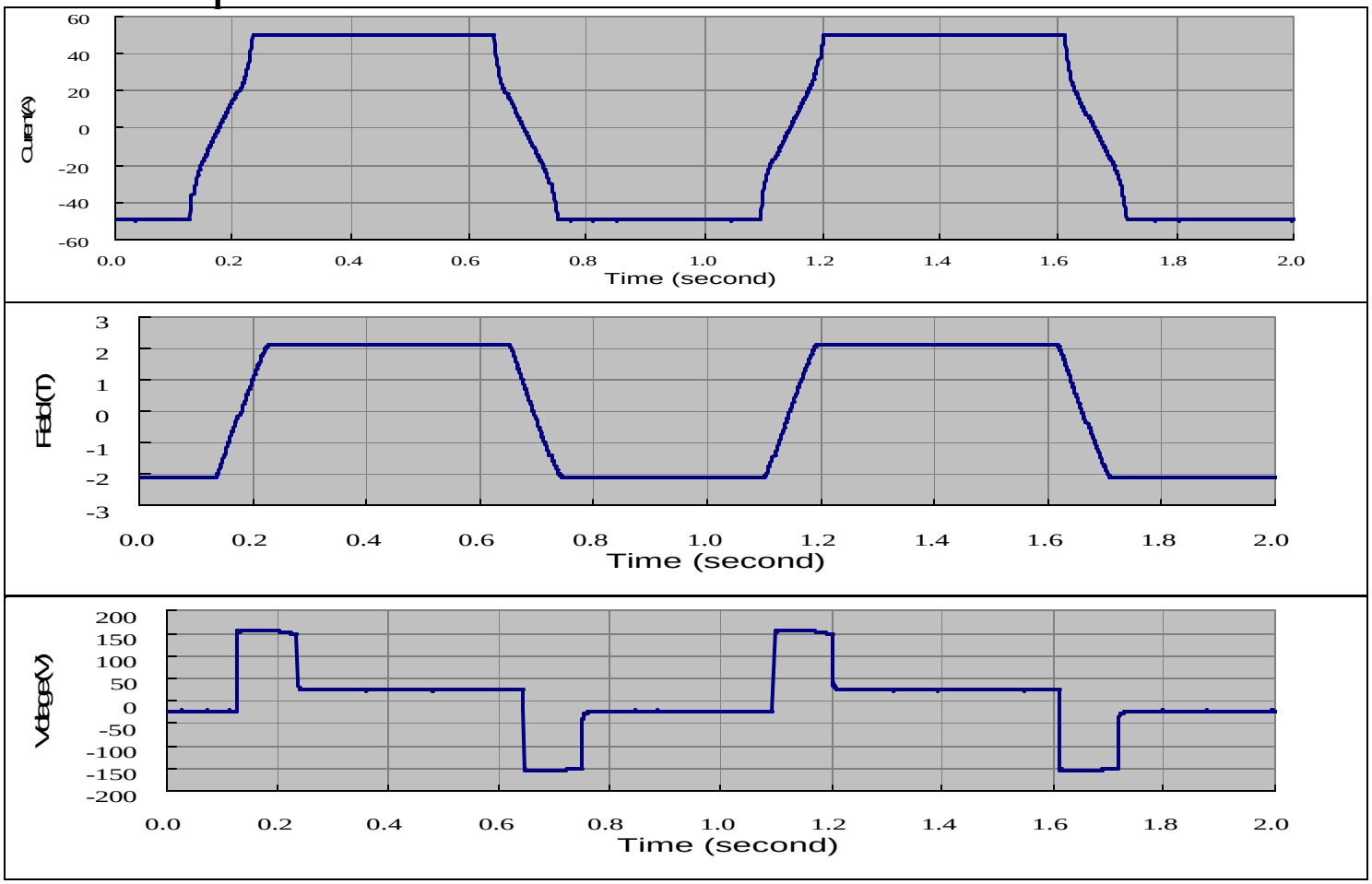
GMW 231HC Bipolar Current Amplifier

- True Bipolar: +/-160V, +/-70A.
- Enables fast ramping of solid and laminated electromagnets.
- With GMW 5403AC laminated electromagnet
  -2T to +2T ramp time is 0.1 sec or 40T/sec.
- USB interface with 16-bit input/output resolution.
  Current programming.
  Readback of output current, voltage and magnetic field.
- Based on Copley Controls 231HC MRI Gradient Amplifier.

Yuqiang Qin, Mike Duffy, Ian Walker, GMW Associates

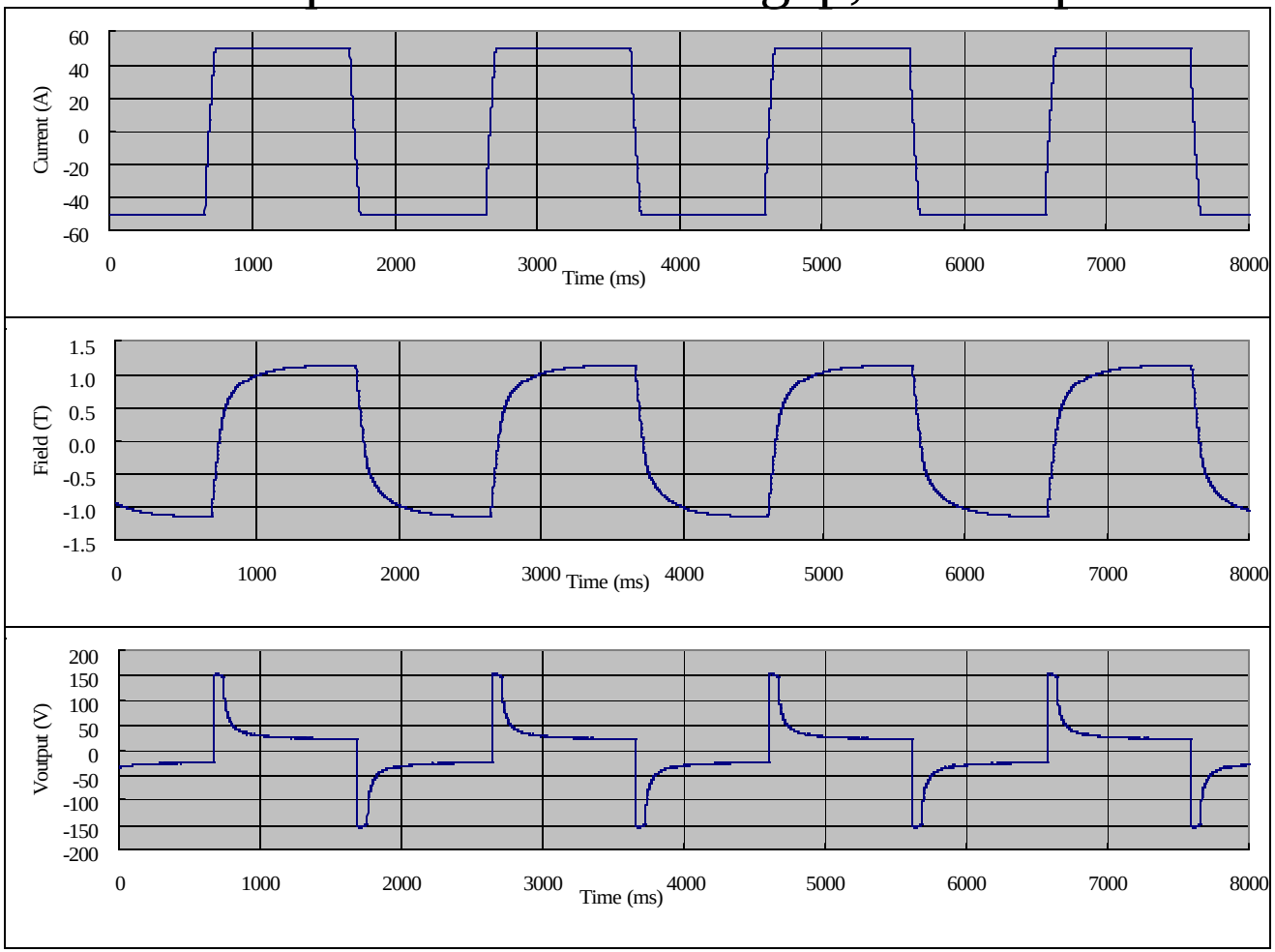
GMW 5403AC with 231HC

-1 Hz Square wave. 4T transition in 0.1 sec or 40T/sec



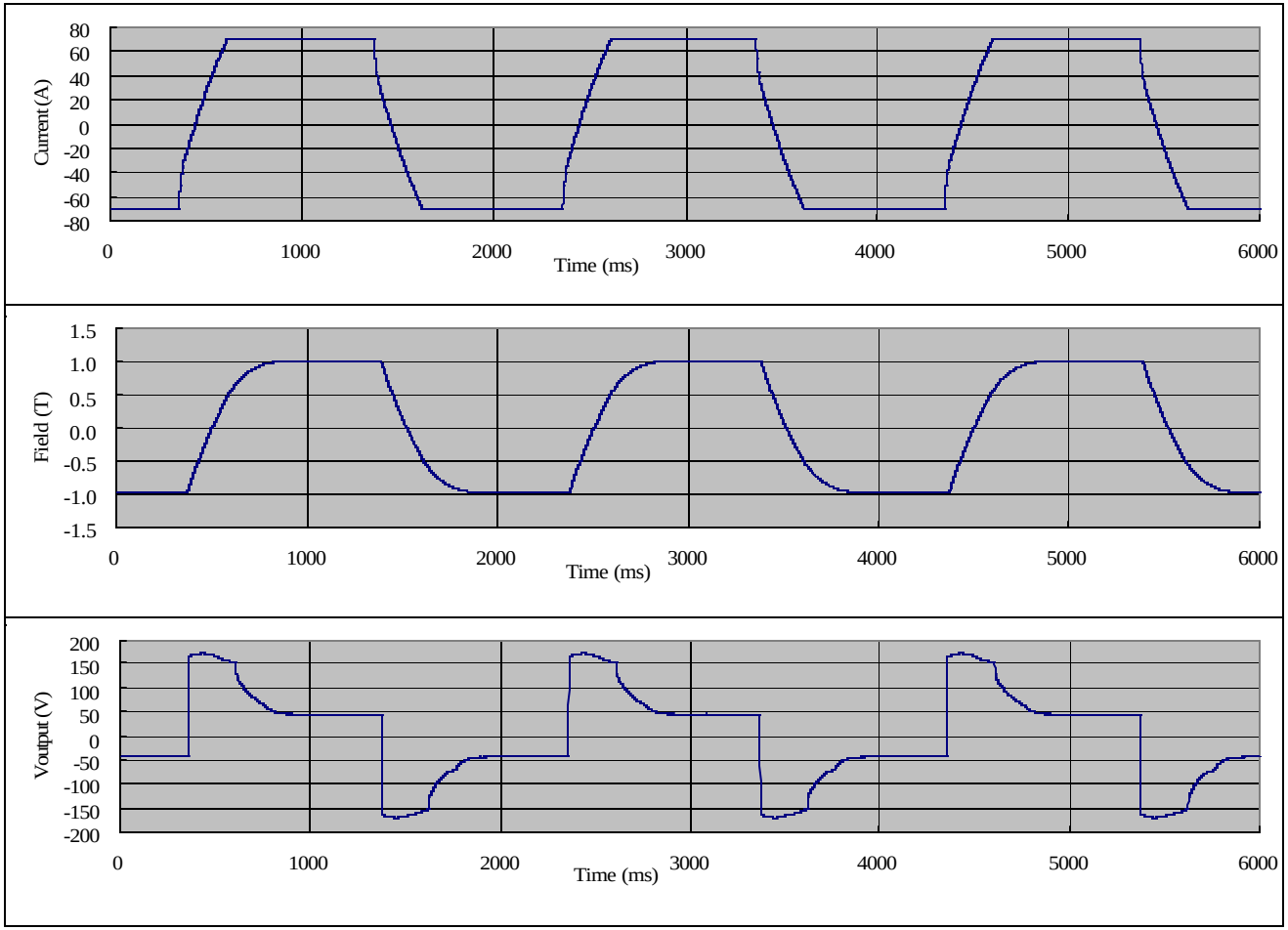
GMW 5403 with 231HC

-0.5 Hz Square wave.30mm gap, 38mm pole.



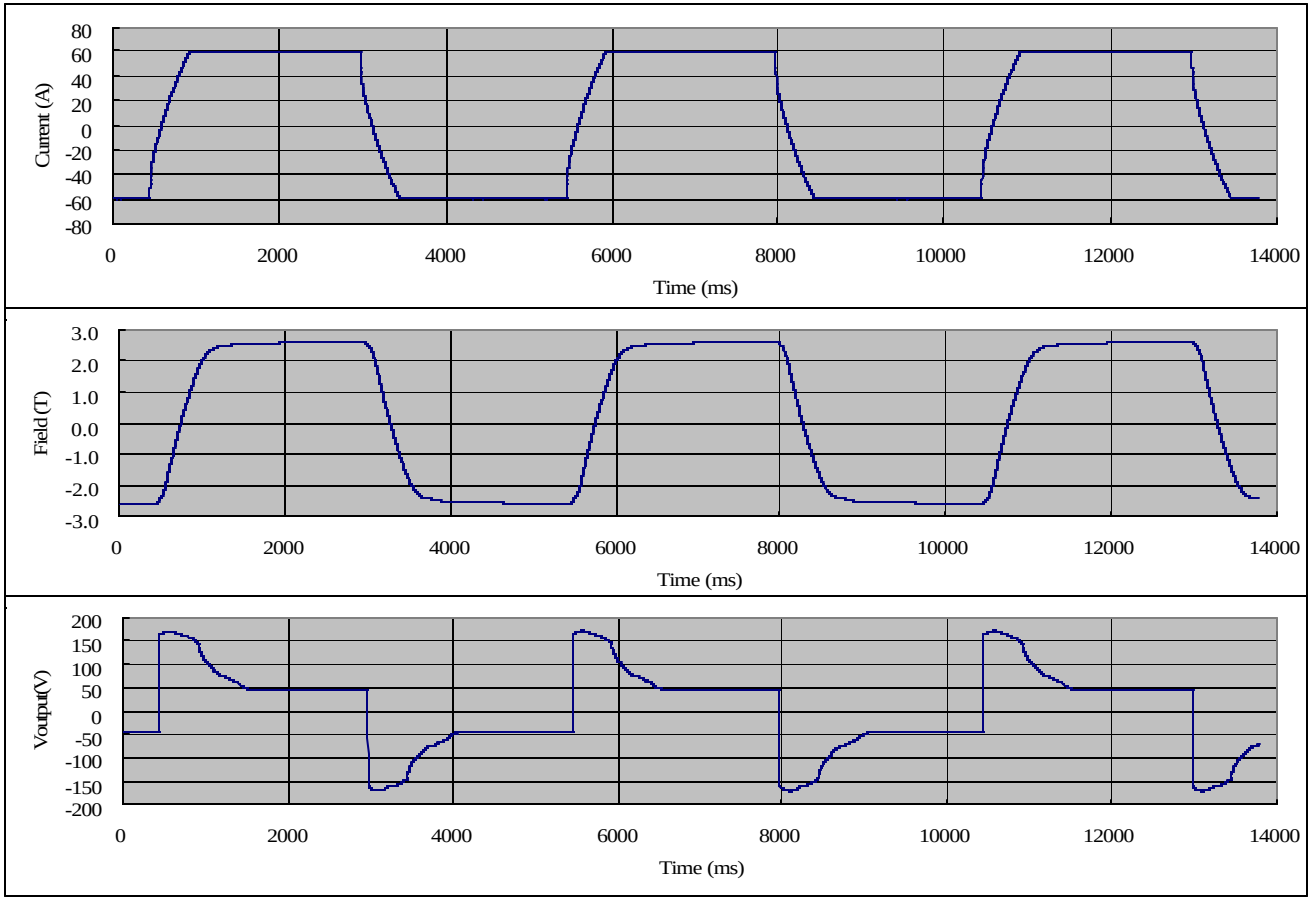
GMW 3472-70 with 231HC

-0.5 Hz Square wave. 100mm pole, 50mm gap.



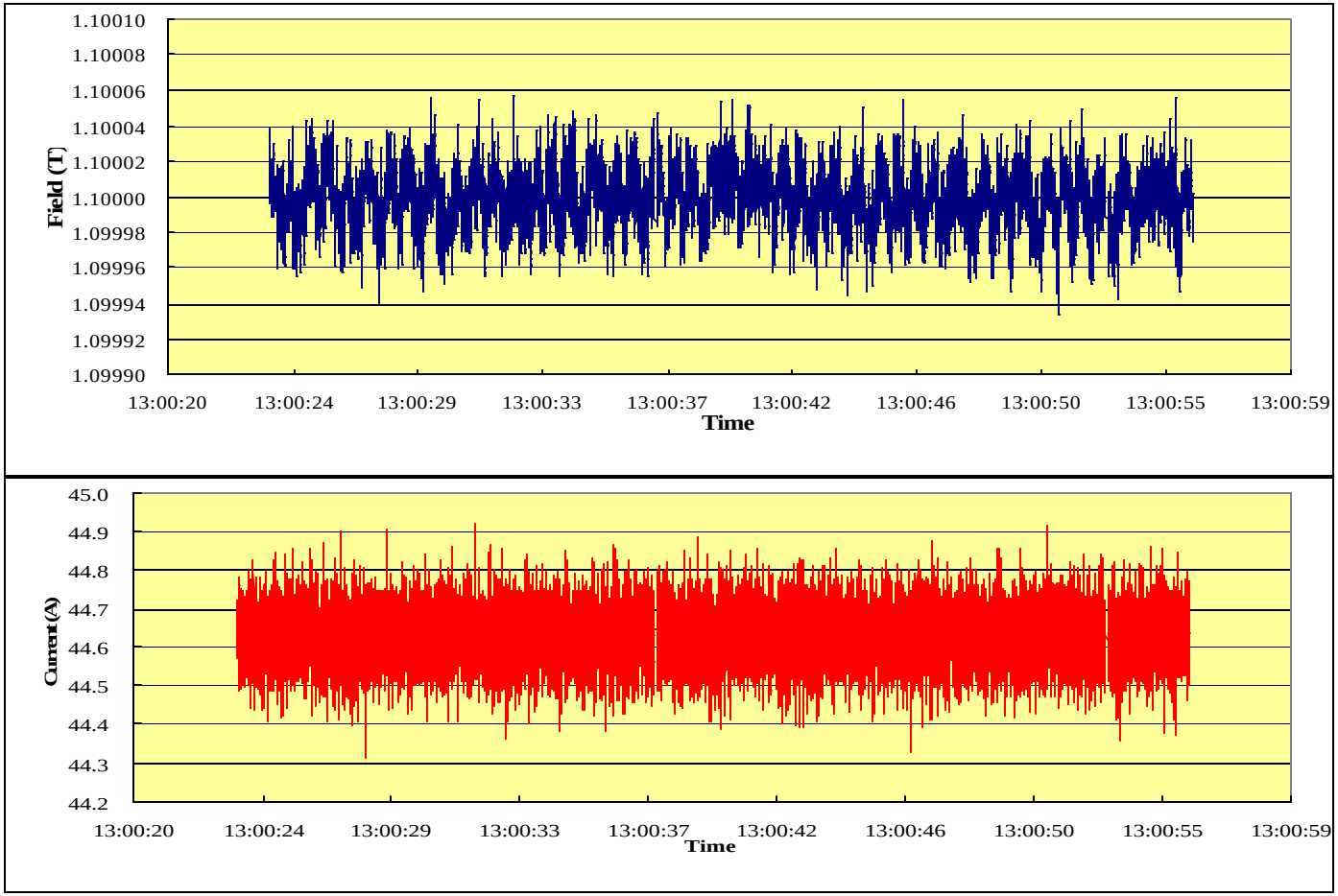
GMW 3473-70 with 231HC

-0.2 Hz Square wave. 75mm pole, 10mm gap.



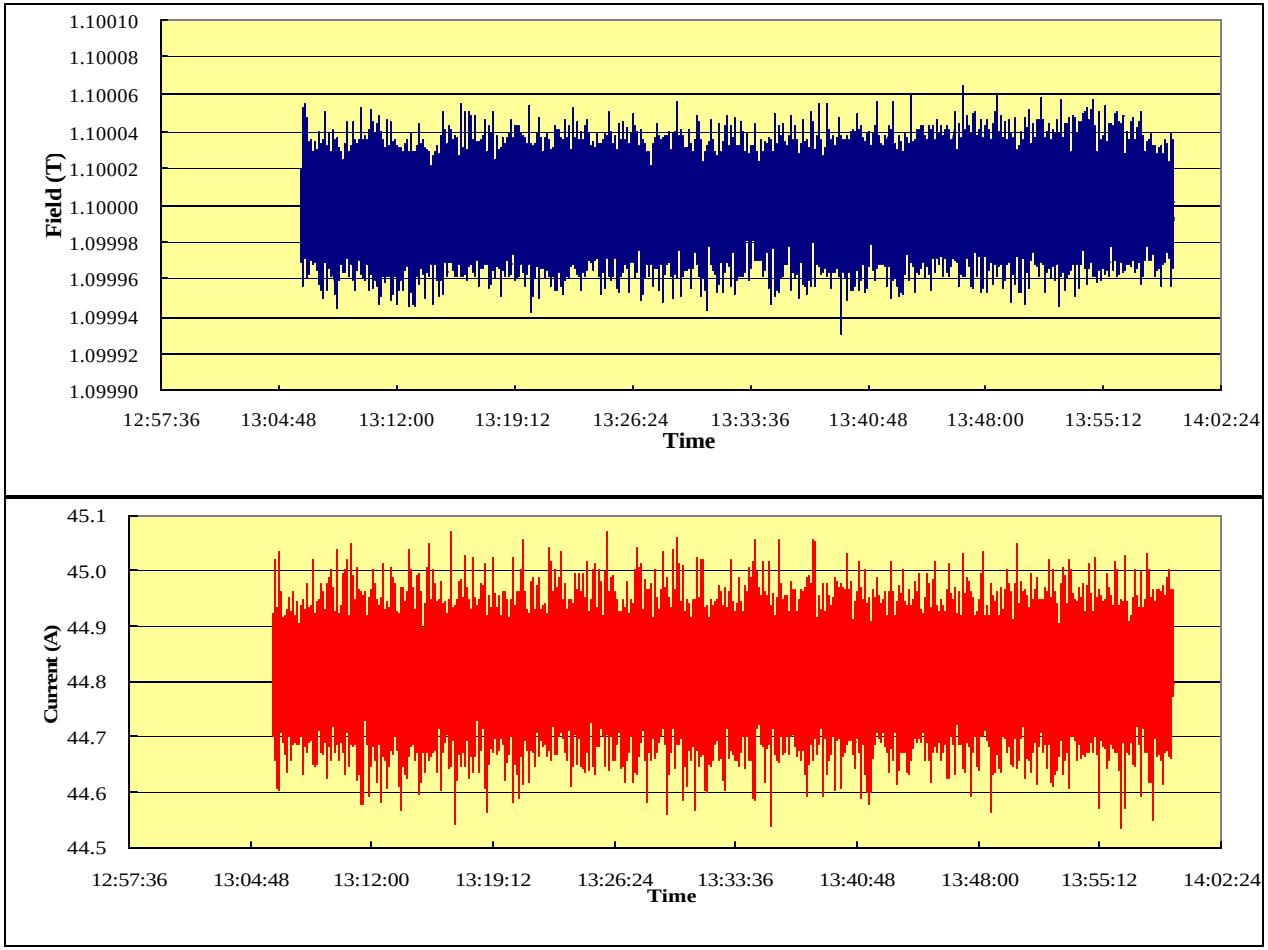
GMW 5403 with 231HC

-60 second stability.

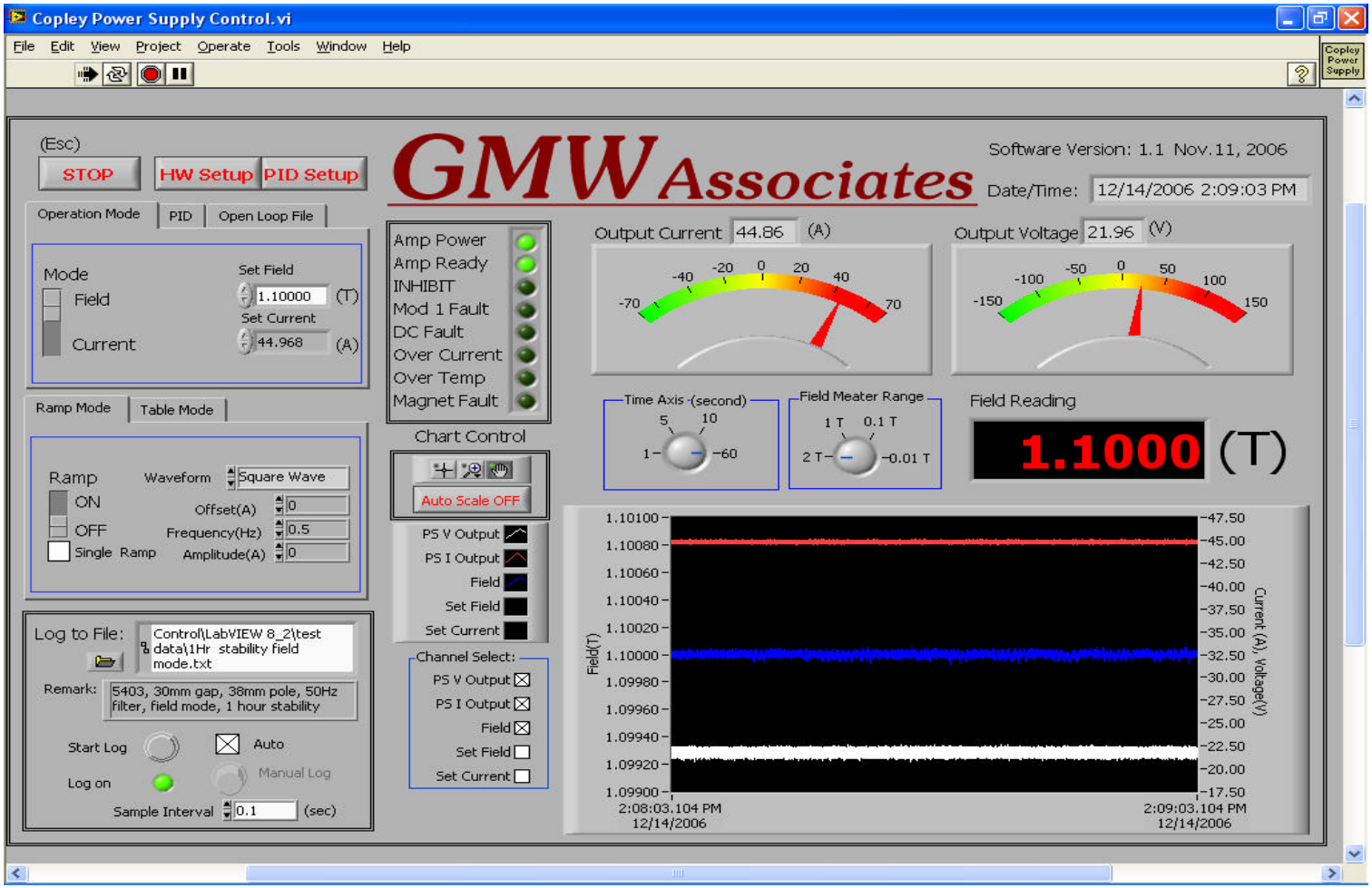


GMW 5403 with 231HC

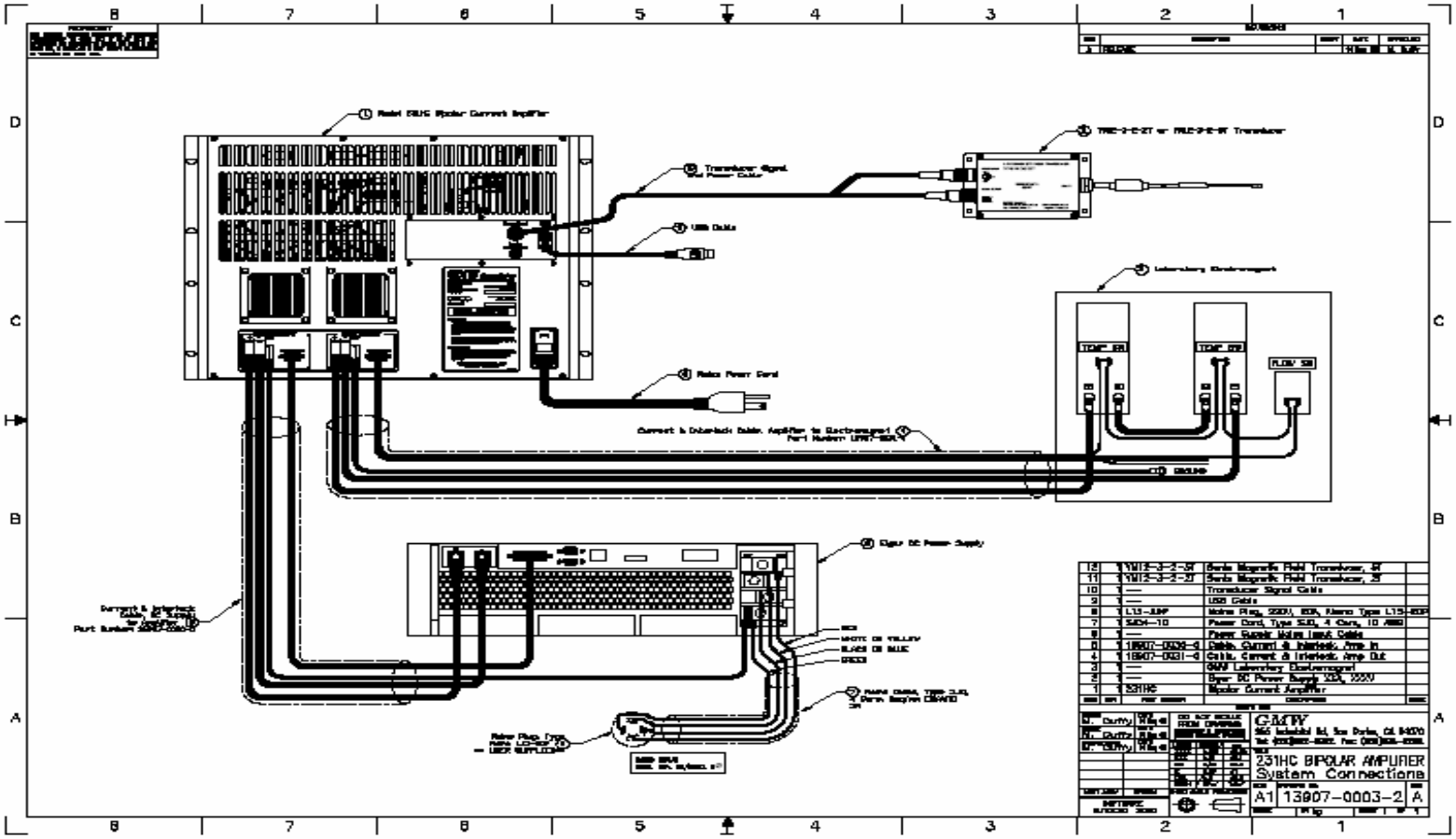
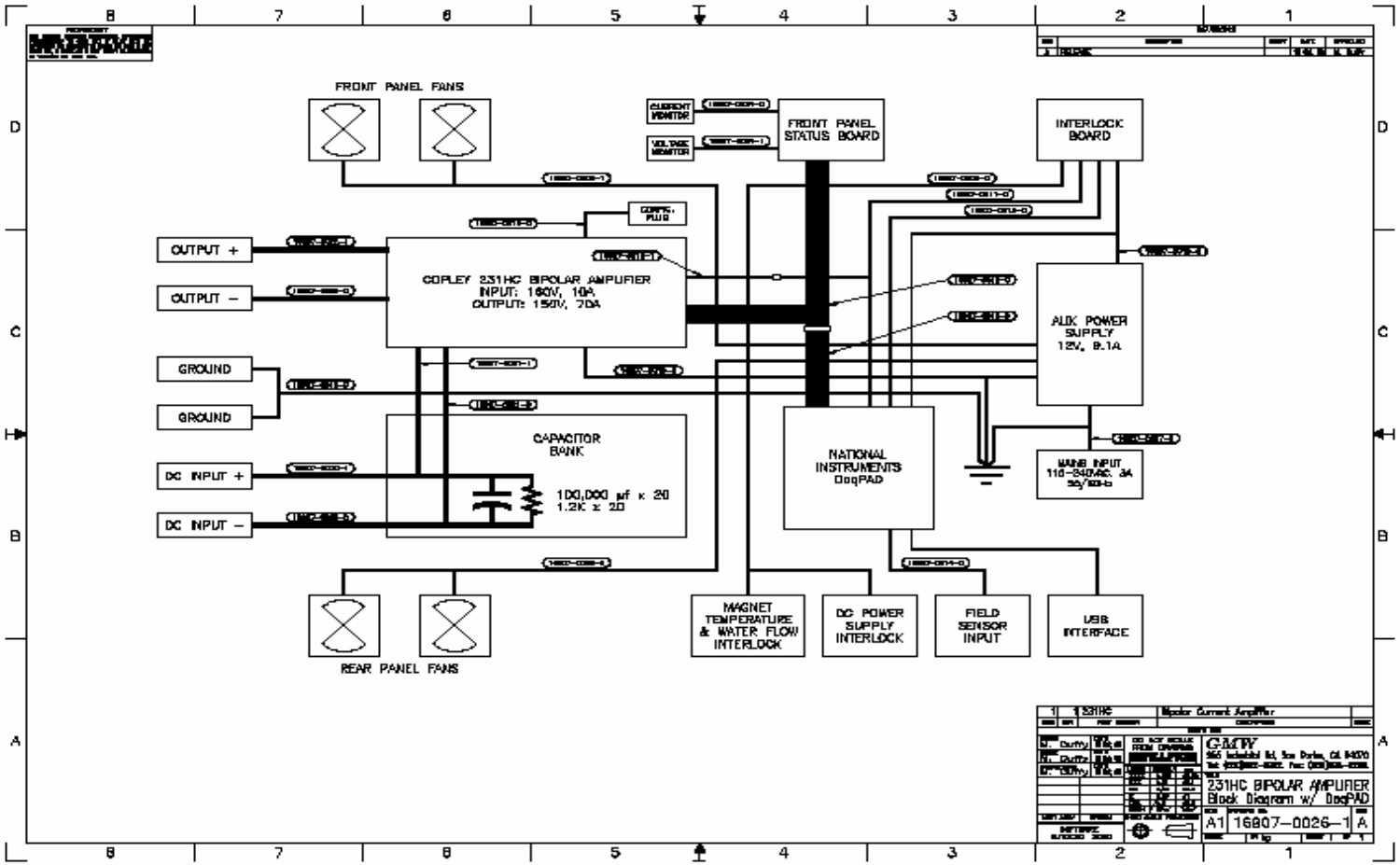
-1 hour stability.



GMW 231HC Control Software



GMW 231HC System Connections



GMW 231HC System Block Diagram