

EDDY DRIVER

HIGH VOLTAGE ELECTRONICS FOR ULTRA-FAST EDDY CURRENT DRIVEN SYSTEMS

- ✓ **MODULAR HV SYSTEM**
- ✓ **FULLY CONFIGURABLE**
- ✓ **NI-BASED CONTROL**
- ✓ **REPRODUCIBLE & SERVICEABLE**
- ✓ **SAFETY-CERTIFIED**



KEY FEATURES

MODULAR ARCHITECTURE

- **1 low-voltage** controller + 2 independent **HV modules**
- Easily **maintainable** and **repairable** (COTS-based)
- Supports **multi-actuator** or **multi-channel** systems

FULL CONTROL & MONITORING

- NI-based architecture with **LabVIEW interface**
- Every parameter **configurable**: voltage, current limit, timing, trigger logic etc.
- **Real-time** monitoring of voltages, currents, interlocks and system status
- Full **remote controllable** (TCP/IP)

HIGH-VOLTAGE PERFORMANCE

- Up to **2 kV** configurable output
- Controlled capacitor charging with current limit & safety timeout
- High-speed SCR/thyristor discharge
- Stable, repeatable discharge profiles for precision actuation

SAFETY & CERTIFICATION

- **Comprehensive** HW and SW **interlocks**
- **Automatic safe discharge** path
- Andon **safety light** for HV indication
- **CE-compliant** electrical and EMC design

TYPICAL APPLICATIONS

- **Eddy-current** fast **actuators** (fast valves, shutters, impact-free linear drives)
- Fusion **diagnostics** and **protection systems**
- **High-speed** mechanical test stands
- **Research labs** requiring safe, precise HV discharge control

EDDY DRIVER — WHEN MILLISECONDS MATTER, RELIABILITY DECIDES.