

## Voltage and Current Surge Generator

- All three waveforms required by the ANSI/IEEE standard C62.41-1980 (formerly IEEE standard 587-1980) and IEC Publication 664-1980 for surge voltage testing in low-voltage AC power circuits on 120V/240V power lines
  - Oscillatory wave shape of 6kV amplitude with a current capability of 500A
  - Two exponential wave shapes are needed for impulse wave tests. A 6kVp voltage surge (open circuit) at  $1.2 \times 50\mu\text{s}$ , and a 3kAp current surge (short circuit) at  $8 \times 20\mu\text{s}$
  - Surge selector switch, a power push button and 2 high-voltage push buttons
  - A front panel digital panel meter indicates peak voltage
  - Isolation Network
    - \* Line Current: maximum line current to EUT is 20ARMS
    - \* Surge Voltage: up to 6kV
    - \* Surge Current: up to 3kA peak
    - \* AC Line Voltage to EUT: 0 - 138 VRMS; 50/60 Hz
- Provides surges on power lines up to 480 VRMS
- The **Velonex V-3050** three-phase 25ARMS surge coupler/isolation network provides coupling and line isolation for three-phase powered equipment. The V-3050 allows for ten different modes of injection and polarity control from front panel switches. Testing can be conducted on equipment up to 277V at 25ARMS per phase and 480V phase-to-phase