

D21

Lightweight Cable Fault Location Surge Wave Generator



- Compact, lightweight integrated cart design with built-in DC high-voltage generator, high-voltage surge capacitor, automatic spark/discharge ball gap unit, current coupling unit, and centralized automatic control unit—a user-friendly cable fault surge generator.
- Built-in DC High-Voltage Output: 0–16 kV (negative polarity), Maximum Output Current: 80 mA
- Built-in pulse impulse capacitor: 0–18kV/15μF Capacitor energy: 2430J

Features:

1. Rugged integrated cart structure.
2. Integrated DC high-voltage generator, high-voltage surge capacitor, automatic spark/discharge ball gap unit, current coupling unit, and centralized automatic control unit for easy operation.
3. Wide Wheels (25 cm in diameter) and compact design ensure smooth, long-distance movement across various road conditions.
4. Rapidly locates and pinpoints low-resistance, open-circuit, high-resistance leakage, and flashover faults in power cables of all voltage grades.
5. Built-in High-Voltage Output Terminals, with High-Voltage Silicone Coaxial Cable for Output, Ensuring Simple, Safe, and Reliable Wiring.
6. Panel Display shows the actual capacitance voltage of the surge capacitor, enabling reliable monitoring of the voltage applied to the cable.

Technical Specifications:

1. Test Methods: Arc Reflection Method/Multiple Pulse Method, DC Arc Reflection Method/DC Multiple Pulse Method, Current Sampling Method, DC Current Sampling Method, DC Output Mode.
2. Signal Sampling Types: Arc Reflection/Multiple Pulses, Current Sampling, Low-Voltage Pulses.
3. Built-in DC High-Voltage Output: 0-16 kV (negative polarity), Maximum Output Current: 80 mA
4. Built-in Pulse Surge Capacitor: 18 kV/15 μ F, Capacitor Energy: 2430 Joules
5. Built-in Sphere Gap Impulse Discharge: Low-voltage controlled solenoid valve air gap. Impulse discharge cycle adjustable from 3–12 seconds. Features specially designed noise suppression to meet silent operation requirements for initial cable faults.
6. Protections:

Zero-Voltage Position Protection: Prevents misoperation and safeguards the safety of personnel and test objects.

After pressing the "HV OFF" button, the residual charge is rapidly and automatically discharged through a built-in safety device to ensure safety.

