

# Tubular High-Voltage Reed Relay (HVFR Series Up to 15kV)

Model: HVFR / HVFR-01 Series

## Product Overview

High-voltage tubular reed relays with vacuum contacts offering standoff breakdown voltages up to 10kV / 15kV for Hipot testers and BMS isolation.

## Key Features

- Dielectric breakdown voltage across open contacts up to 15,000V DC
- Coil-to-contact isolation voltage up to 15,000V DC
- Insulation resistance > 10<sup>12</sup> Ohm for precision leakage measurement
- High-voltage silicone lead wires with coronal suppression
- Extensively utilized in EV battery insulation monitoring and medical defibrillators

## Typical Applications

- Automotive & Commercial Vehicles
- Industrial Machinery & Automation
- Electric Vehicles (EV & FCEV)
- Safety Interlocks & Control Systems

## Technical Specifications

| Parameter             | Specification / Technical Value |
|-----------------------|---------------------------------|
| Isolation Voltage     | 10,000V / 15,000V DC breakdown  |
| Switching Voltage     | Up to 10,000V DC                |
| Switching Current     | Max 3.0A / Carry Current 5.0A   |
| Contact Power         | 50W / 100W                      |
| Coil Voltage          | 12V DC / 24V DC                 |
| Insulation Resistance | > 10 <sup>12</sup> Ohm          |