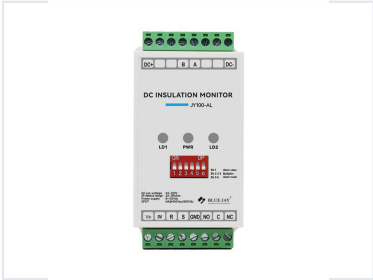


# DC Insulation Monitor for EV Chargers

This DC insulation monitor is designed for use in DC EV chargers and DC charging piles. It features RS485 communication for remote monitoring and control.



## ADDITIONAL IMAGES



## Overview

### Advanced DC Insulation Monitoring

This insulation monitoring device is engineered for high-voltage DC systems, providing real-time safety monitoring for positive and negative electrodes to ground. It integrates essential functions such as DC-to-ground insulation resistance monitoring, voltage reverse connection alarms, and capacitor discharge management. Designed for rapid response, the unit delivers monitoring results within 2.5 seconds of activation, ensuring operational safety in demanding environments like EV charging stations and energy storage systems.

## Key Features

### Typical Applications

- EV DC charging systems
- Photovoltaic systems
- Energy storage systems
- DC power grids

### Core Features

Real-time Monitoring, Fast Response (2.5s), Wide Power Range, RS485 Communication, Din Rail Mount

## Technical Specifications

### Measurement Performance

**1000 V**

Max DC Voltage

**10 M $\Omega$**

Max Insulation Resistance

**2.5 s**

Response Time

### Electrical Parameters

Parameter	Value
Power Supply	9-30VDC
DC Voltage Range	0-1000V
Insulation Resistance Range	1K $\Omega$ -10M $\Omega$
Off-line Pressure Test	<2mA

### Accuracy Specifications

- Insulation Accuracy:  $d3K\pm 10\%$  (100-300)
- Insulation Accuracy:  $d3K\pm 5\%$  (300-1000)
- Measurement Accuracy:  $d2V+0.3\%$

## Environmental & Physical

### Mounting

Din Rail Mount

Dimensions	49mm x 98mm x 62mm
Operating Temperature	-40°C to 70°C
Storage Temperature	-40°C to 125°C