

Energom-DCG Din-Rail mounting Insulation relay

Description

DC insulation monitor is based on RS485 Modbus protocol, suitable for EV DC charging system, photovoltaic system, energy storage system, DC power grid and other DC systems under 1000V.

This device has the function of insulation monitoring start and stop, insulation monitoring can be real-time monitoring of positive and negative poles to the ground insulation resistance, the monitoring result is not affected by DC voltage changing, is not affected by the positive and negative poles insulation resistance symmetry.

Main Features

- Monitoring of the DC circuit bus bar insulation resistance RF to earth.
- Bridge balance method for resistance measurement.
- Single channel and dual-channels type optional.
- Wider DC insulation monitoring range DC0~1000V.
- Faster monitoring speed of turning on.
- Communicate with RS485 Modbus networks
- Adaptive capacitance to ground.
- Simple device setting by DIP switch.



Technical characteristics

	Single channel	Dual channels
Detect channels		
DC voltage range	0~1000V	
Power supply	9~30VDC	
Insulation resistance range	1KΩ~10MΩ	
Insulation monitoring accuracy	$\leq 3K\Omega + 10\%$ (100-300V) $\leq 3K\Omega + 5\%$ (300-1000V)	
Measurement accuracy	$\leq 2V + 0.3\%$	
Storage temperature	-40°C ~ 125°C	
Operating temperature & humidity	-40°C ~ 70°C, 85%	
Off-line pressure test	<2mA	
Communication	RS485 Modbus	
Installation type	Din Rail mount	

Typical Schematic

