

COMPANY PROFILE

Shandong Bohong Electric Co., LTD(Bohong Electric)

is a high-tech enterprise specializing in the research and development, promotion, system integration and consulting services of online monitoring, data analysis, intelligent cloud computing and other technologies of power lines.

PRODUCT INTRODUCTION

The newly developed BHDJ series power supply line online monitoring system, for the first time proposes and utilizes the "recoverable fault" mechanism of power supply lines, adopts advanced sensor technology, integrated micro-power electronic technology, modern communication technology (LAN, optical fiber, 5G)

The system employs an ultra-high frequency (UHF) data acquisition unit to continuously monitor transient current/voltage traveling wave signals in power lines, enabling real-time insulation monitoring. This technology facilitates early detection and timely prediction of potential insulation faults, while supporting dual-end fault location and distance measurement. The cloud-based platform integrates advanced management features including real-time big data analytics, AI algorithms, and GIS configuration capabilities.

BHDJ-3000

Distribution Network Cable Fault Warning and Precise Positioning System

BHDJ-300 Cable fault precise positioning device

Scope of application: 6kV, 10kV and 35kV cablelines

Device size: 260×340×88mm

High frequency sampling frequency: 50MHz

Voltage sampling frequency: 100KHz

Circulation sampling frequency: 10KHz

Current, circulating current channel: 8 channels

GPS/Beidou Fiber optic timekeeping accuracy: 20ns

Fault positioning error: $0.2\% \times L \pm 1.7m$ (L is the cable length between monitor in terminals)

Power supply mode: AC/DC110~220V/DC15~60V/CT coupling power supply (starting current > 30A)

Protection class: IP31 (can be increased to IP65/IP67)

Communication mode: 4G wireless communication/ Network port/ Fiber optic communication

BHDJ-7000

Distribution Network Overhead Line Fault Warning and Precise Positioning System

BHDJ-701 Overhead distribution line fault location device (non-contact)

Scope of application: 6kV, 10kV and 35kV overhead lines

High frequency sampling frequency: 25MHz

GPS/Beidou timing accuracy: 20ns

Double-ended test distance: < 2km

Fault location error: $0.2\% \times L \pm 6m$ (L is the length of overhead line between monitoring terminals) or < 50m

Power supply mode: The device integrates solar cell arrays

Working hours in continuous rainy days: Ten days

Levels of protection: IP67 (can be increased to IP68)

Communication mode: 4G wireless communication

BHDJ-703 Overhead distribution line fault location device (contact + solar power supply)

Scope of application: 6kV, 10kV and 35kV overhead lines

High frequency sampling frequency: 25MHz

GPS/Beidou timekeeping accuracy: 20ns

Double-ended test distance: $\leq 5km$

Fault positioning error: $0.2\% \times L \pm 6m$ (L is the line length between monitoring terminals) or < 50m

Power supply mode: The device integrates solar panels

Working hours in continuous rainy days: Ten days

Levels of protection: IP67 (can be increased to IP68)

Communication mode: 4G wireless communication

Crank grip strength: 50N

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