

Low-Voltage Power Distribution Cabinet with Automatic Compensation

This low-voltage distribution cabinet is designed for AC 50Hz transmission and distribution systems with a rated current below 0.4kV. It integrates automatic compensation and distribution with functions like leakage protection, electrical energy calculation, and overcurrent protection.

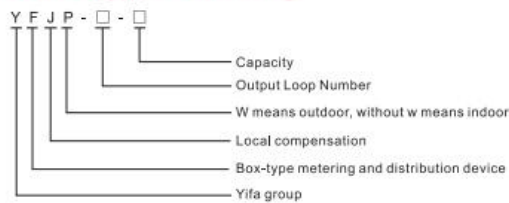


ADDITIONAL IMAGES



Product Overview

Product type and meaning



Product type and naming convention breakdown, illustrating the meaning behind the series designation.



The JP Series Low-Voltage Integrated Distribution Box offers a robust and reliable solution for electrical power distribution.

Integrated Power Distribution & Compensation

This low-voltage power distribution cabinet is designed for AC 50Hz transmission and distribution systems with voltages below 0.4kV. It intelligently integrates automatic powerless compensation with electrical distribution, offering a comprehensive solution that includes leakage protection, energy metering, and safeguards against overcurrent, overvoltage, and open-phase conditions. Built for both indoor and outdoor environments, this cabinet features a compact, durable design that ensures reliable operation, easy installation, and enhanced protection for electrical networks.

Technical Performance

Key Performance Metrics

400 V

Rated Voltage

50 Hz

Rated Frequency

250 KVA

Max Rated Capacity

60 KVAR

Max Compensation Capacity

Protection Specifications

Parameter	Limit
Leakage Action Current	<300mA
Electrical Shock Action Current	d50mA
Action Time	<0.2S

Environmental Conditions

Operating Environment

- Ambient Temperature: -25°C to +40°C (Average d +35°C)
- Altitude: Up to 2000m
- Installation Inclination: d ±5°
- Protection Degree: IP55
- Operating Environment: Free from severe vibration, corrosive gas, and conductive dust

Key Components

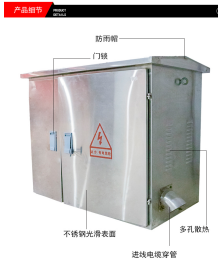


Internal layout featuring essential components including metering, current transformers, capacitors, and residual current circuit breakers.

Internal Components

Component Type	Model/Function
Watt-hour Meter	DD862 3-phase/4-wire
Total Control	CJ20 AC Contactor
Shunt Distribution	RDM1 Plastic Housing Circuit Breaker
Leakage Relay	RDJD2 Phase Demodulation Amplitude Discrimination
Power Controller	JKL5C Powerless Power Controller
Capacitor	BSMJ Self-recovery Low-voltage Parallel Capacitor

Product Features



Designed with a stainless steel surface, rainproof top, and multi-hole heat dissipation for optimal outdoor performance.

Key Features

Automatic Compensation, Weatherproof, Leakage Protection, Overcurrent Protection, Overvoltage Protection, Easy Installation, Compact Design, Electric Larceny Protection