

## Product Overview

The GZDW DC power cabinet is used in large, medium, and small power plants and substations. It serves as a DC power supply for high-voltage switch opening and closing, relay protection, automatic control, emergency lighting, lighting, and audio signals under normal operation and accident conditions. It can also be applied to industries such as metallurgy, railways, mining, petrochemicals, postal and telecommunications, communication, healthcare, banks, hotels, high-rise buildings, and computer networks; The microcomputer controlled DC power cabinet can be used for unmanned, remote centralized monitoring of DC power in power plants, substations, and other industries

This product complies with the JB/T5774-2000 "General Technical Conditions and Safety Requirements for DC Power Supply Equipment in Power Systems" standard

## Product Model Description

G Z D W - □ □

① ② ③ ④ ⑤ ⑥

①	柜
②	直流电源
③	电力系统
④	微机控制型
⑤	电池容量
⑥	电压等级

## Usage conditions

Altitude: not exceeding 2000m

Environmental temperature: -5 °C~+40 °C

Relative humidity: not greater than 90% (at 20 ± 5 °C)

Note: If ordering this product exceeds the above conditions, please consult with our company

## Technical Parameters

Input power supply voltage: three-phase AC 380V+10%, 50Hz 5%

Rated output DC voltage: 24V; 48V; 110V; 220V;

Rated output DC current: 5A, 8A, 10A, 15A, 20A, 30A, 40A, 50A, 80A, 100A, 150A, 200A, 250A

Rated capacity of battery: 10Ah, 20Ah, 38Ah, 40Ah, 50Ah, 60Ah, 65Ah, 80Ah, 100Ah, 150Ah, 200Ah, 250Ah, 300Ah, 400Ah

Voltage regulation range (see Table 1)

Output DC current regulation range: 0-100% of rated value

Stable accuracy <± 1%

Steady current accuracy <± 1%

Ripple factor: <1%

Whole machine noise: <55dB

Main transformer temperature rise: 70 °C

Working mode: continuous work

Efficiency >90%

Protection level: IP20~IP30

## Main functions

Complete specifications: This series of products has ten models and hundreds of specifications, which can fully meet the needs of large, medium, and small power plants, substations, and various industries for DC power supply

Reliable operation: The AC dual channel is automatically switched, and the product is equipped with two charging float charging devices as backups for each other, making system switching convenient

Stable operation: This product has good anti-interference performance, high accuracy, and small ripple coefficient

Long battery life: This product can strictly charge and float charge the battery according to the charging curve, avoiding overcharging or undercharging phenomena. The microcomputer controlled type has battery inspection function

Multiple protection: This product can track and detect various working points, combining software and hardware protection. The insulation detection device can check the insulation condition of the busbar at any time

Motion communication: The microcomputer controlled DC power cabinet can communicate with the upper computer, enabling centralized monitoring and unmanned operation

输出直流电压额定值	24V	48V	110V	220V
浮充电压调节范围	21-28	43-57	99-130	198-260
均充电压调节范围	27-31	54-62	125-140	198-286
主充电压调节范围	21-36	43-70	99-162	187-310

产品型号	序号说明	规格 (种)	适用范围
GZDW230-□/□	单组电池、单母线分段、二台双线输出充电装置、无降压回路	10	发电厂或大型变电站
GZDW231-□/□	单组电池、单母线、二台双线输出充电装置、无降压回路	10	发电厂或大型变电站
GZDW232-□/□	单组电池、双母线分段、二台双线输出充电浮充充电设置	20	12kV-220kV 变电站和中小型电厂
GZDW233-□/□	单组电池、双母线、二台双线输出充电浮充装置	20	12kV-220kV 变电站和中小型电厂
GZDW234-□/□	单组电池、双母线分段、二台三线输出充电浮充装置	20	12kV-220kV 变电站和中小型电厂
GZDW235-□/□	单组电池、双母线、二台三线输出充电浮充电装置	20	12kV-220kV 变电站和中小型电厂
GZDW240-□/□	双组电池、单母线分段、二台双线输出充电浮充装置、无降压回路	10	重要发电厂或大型变电站
GZDW241-□/□	双组电池、双母线、二台双线输出充电浮充装置	12	12kV-220kV 变电站和中小型电厂
GZDW242-□/□	单组电池双母线分段、三台双线输出充电浮充装置	10	重要发电厂或大型变电站
GZDW243-□/□	双组电池、双母线、二台三线输出充电浮充装置	12	12kV-220kV 变电站和中小型电厂

产品型号	序号说明	蓄电池输出电压 (V)	控母额定电流 (A)	合母冲击电流 (A)	柜面数据
GZDW2-20/220	20	220	5	60	2
GZDW2-38/220	38	220	5	100	2
GZDW2-50/220	50	220	8	120	2
GZDW2-65/220	65	220	10	120	2
GZDW2-80/220	80	220	10	240	2
GZDW2-100/220	100	220	10	240	2
GZDW2-150/220	150	220	15	480	3-4
GZDW2-200/220	200	220	20	480	3-4
GZDW2-300/220	300	220	30	600	3-4
GZDW2-20/110	20	220	5	60	2
GZDW2-38/110	38	220	5	100	2
GZDW2-50/110	50	220	8	120	2
GZDW2-65/110	65	220	10	120	2
GZDW2-80/110	80	220	10	240	2
GZDW2-100/110	100	220	10	240	2
GZDW2-150/110	150	220	15	480	3-4
GZDW2-200/110	200	220	20	480	3-4
GZDW2-300/110	300	220	30	600	3-4

## 直流系统图

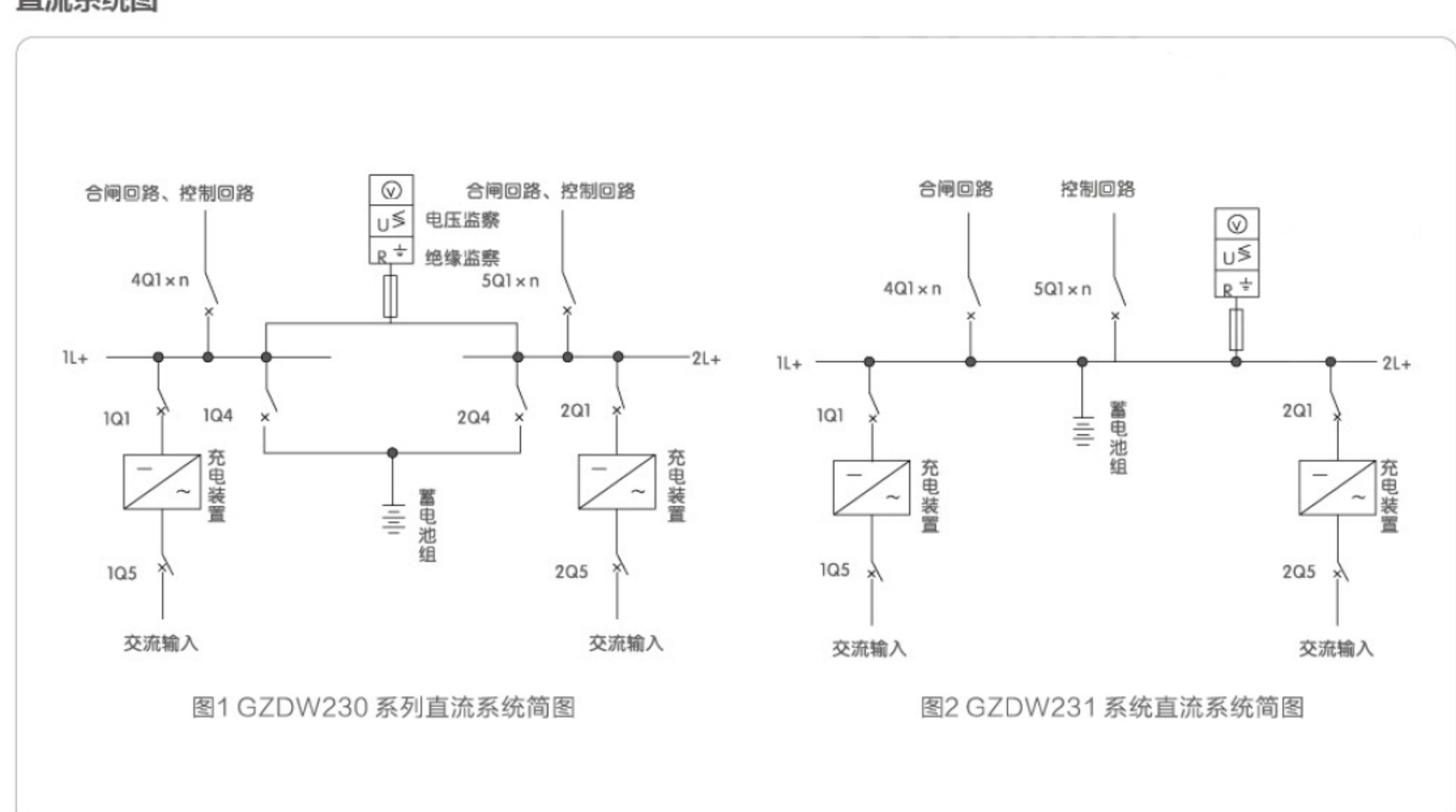


图1 GZDW230 系列直流系统简图

图2 GZDW231 系统直流系统简图