GZD(W)

series(microcomputer control)
direct current power supply box



summarization

GZD(W)series(microcomputer control)direct current power supply board is used in middle and small size power plants and transformer substations as a direct current power required in switch cutting on and off in the high pressure, relay protection, automatic control, accident lighting, light and sound signal in normal operation and fault condition. It is also used as power in fields of metallurgy, railroad, mine, landification, post, communication, medical sanitation, bank, hotel, highbuilding and computer network. Computer controlled direct current power supply board can be used in the power plants which are watched by no one and monitored remotely and concentratedly, in transformer substations and other fields.

Model No.

G Z D (W) □– □ / □ □

- Battery type:
  - (1) Ni-Cd battery:
    - C-Supper High magnification
    - G-High magnification
    - Z-Medium magnification
  - (2)Lead-acid batteries:
    - M-Value controller sealed lead-acid battery
- Rated output voltage(V)
- Battery capacity(Ah),Dual battery pack
- Design code
- Microcomputer control type
- D-power-system,T-communication system
- DC power-supply
- Cabinet

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Model No.	Instruction	Type quantity	Range
GZD(W)30-□/□	Single busbar section,single battery,two dual output charge device,without voltage reduce circuit	10	power plant Large transformer substation
GZD(W)31-□/□	Single busbar,single battery,two dual output charge device,without voltage reduce circuit	10	power plant Large transformer substation
GZD(W)32-□/□	Double busbar section,single battery,two dual output charge device	20	Substation of10 to 220kV Small and medium sized power plant
GZD(W)33-□/□	Double busbar,single battery,two dual output charge device	20	Substation of10 to 220kV Small and medium sized power plant
GZD(W)34-□/□	Double busbar section,single battery,two dual output charge device	20	Substation of10 to 220kV Small and medium sized power plant
GZD(W)35-□/□	Double busbar,single battery,two dual output charge device	20	Substation of10 to 220kV Small and medium sized power plant
GZD(W)40-□/□	Single busbar section,Double batteries,two dual output charge device,without voltage reduce circuit	10	Important power plant Large transformer substation
GZD(W)41-□/□	Double busbar,Double batteries,two dual output charge device	12	Substation of10 to 220kV Small and medium sized power plant
GZD(W)42-□/□	Double busbar section,Single battery,three dual output charge device	10	Important power plant Large transformer substation
GZD(W)43-□/□	Double busbar,Double battery,two Three output charge device	12	Substation of10 to 220kV Small and medium sized power plant

Main functions

3.1 full specifications; This serial products include ten types and several hundreds of specifications. They can meet with the needs of DC power supply for middle and small size power plants, transformer substations and all kinds of fields

3.2 run reliably: AC two channels input can be switched automatically. This product has two float charging devices and can be switched conveniently.

3.3 run stably: This product has a good anti–noise ability, a high precision of stable current and voltage, a small ripple coefficient.

3.4 long lifetime of battery: This product charges batteries according to the charging curve of storage battery and can avoid over charging and lack charging. The microcomputer controlled type has a function testing battery itinerantly.

3.5 many ways to control: This product can be hand controlled, automatically controlled or computer controlled. The running continuity is good.

3.6 mulriple protections: This product can test every operational points. The software protection and hardware protection are integrated. Insulation testing device tests insulation condition of busbars and feeder lines to the ground momentarily.

3.7 romote dynamic communication: Computer controlled DC power board can communicate with epigynous computers. Concentrated monitoring and no one watch can be achieved.

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application ambient

4.1 Altitude is not higher than 2000 m.
4.2 Ambient temperature is –5℃+40.
4.3 Ambient humidity is not bigger than 90%.

main technical index

5.1 input power supply voltage: triphase AC.
5.2 output DC rated voltage.
5.3 output DC rated current.
5.4 storage battery rated capacity.
5.5 float charging range.
5.6 even charging range.
5.7 main charging range.
5.8 output DC current range:the 0–100% of rated value.
5.9 precision of stable voltage.
5.10 precision of stable current.
5.11 ripple coefficient.
5.12 noise of whole device.
5.13 temperature increase of main transformer.
5.14 operational style: continuous operation.
5.15 degree of protection.

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110V DC power-supply cabinet specification parameter

Item / Specification	AC input		control busbar				closing busbar			DC generator starting impulse load		cabinet number of different storage battery					
				Accident load			closing impulse load					High magnification Ni-Cd battery:		Medium magnification Ni-Cd battery:		Value controller sealed lead-acid battery	
	Voltage(V)	Capa-city (kV.A)	Max normal load current (A)	time (h)	current (A)	ways	time(s)	current (A)	ways	time(s)	current(A)	Single battery	Double batteries	Single battery	Double batteries	Single battery	Double batteries
GZD、GZDW–10/110	380±10%	2	8	1	<7.5	4 ~ 6	0.3	<120	4 ~ 6	1 ~ 30	50	2	2			2	2
GZD、GZDW–20/110	380±10%	3	10	1	<15	4 ~ 6	0.3	<240	4 ~ 6	1 ~ 30	200	2	2			2	2
GZD、GZDW–40/110	380±10%	4.5	15	1	<30	4 ~ 6	0.3 ~ 0.5	<480	4 ~ 6	1 ~ 30	100 ~ 400	2	3			2	2
GZD、GZDW–60/110	380±10%	7	20	1	<45	4 ~ 6	0.3 ~ 0.5	200 ~ 500	5 ~ 6	1 ~ 30	100 ~ 400	2	3			2	3
GZD、GZDW–80/110	380±10%	8	25	1	<60	4 ~ 6	0.3 ~ 0.5	200 ~ 500	5 ~ 6	1 ~ 30	100 ~ 400	2	4			2	3
GZD、GZDW–100/110	380±10%	10	30	1	<70	4 ~ 6	0.3 ~ 0.5	200 ~ 500	5 ~ 6	1 ~ 30	100 ~ 400	3	4	5		3	3
GZD、GZDW–120/110	380±10%	11	35	1	<85	4 ~ 6	0.3 ~ 0.5	200 ~ 500	5 ~ 6	1 ~ 30	200 ~ 700	4	4	5		3	4
GZD、GZDW–150/110	380±10%	13	40	1	<110	4 ~ 6	0.3 ~ 0.5	200 ~ 500	5 ~ 6	1 ~ 30	200 ~ 700	4	5	5		3	4
GZD、GZDW–200/110	380±10%	15	45	1	<150	4 ~ 6	0.3 ~ 0.5	200 ~ 500	5 ~ 6	1 ~ 30	200 ~ 700	5		6		4	4
GZD、GZDW–250/110	380±10%	17	50	1	<180	4 ~ 6	0.3 ~ 0.5	200 ~ 500	5 ~ 6	1 ~ 30	200 ~ 700	5		6		4	5
GZD、GZDW–300/110	380±10%	22	60	1	<220	4 ~ 6	0.3 ~ 0.5	200 ~ 500	5 ~ 6	1 ~ 30	200 ~ 700	5		6		4	5
GZD、GZDW–350/110	380±10%	25	70	1	<260	6 ~ 40	0.3 ~ 0.5	200 ~ 500	6 ~ 40	1 ~ 30	400–1000	5		7		4	
GZD、GZDW–400/110	380±10%	30	80	1	<300	6 ~ 40	0.3 ~ 0.5	200 ~ 500	6 ~ 40	1 ~ 30	400–1000	5		7		5	
GZD、GZDW–500/110	380±10%	37	100	1	<370	6 ~ 40	0.3 ~ 0.5	200 ~ 500	6 ~ 40	1 ~ 30	400–1000			7		5	
GZD、GZDW–600/110	380±10%	42	120	1	<450	6 ~ 40	0.3 ~ 0.5	200 ~ 500	6 ~ 40	1 ~ 30	400–1000			10		5	
GZD、GZDW–800/110	380±10%	55	150	1	<600	6 ~ 40	0.3 ~ 0.5	200 ~ 500	6 ~ 40	1 ~ 30	400–1000			12		6	
GZD、GZDW–1000/110	380±10%	70	200	1	<800	6 ~ 40	0.3 ~ 0.5	200 ~ 500	6 ~ 40	1 ~ 30	800–3000			12		6	

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110V DC power-supply cabinet specification parameter

Item / Specification	AC input		control busbar				closing busbar			DC generator starting impulse load		cabinet number of different storage battery					
				Accident load			closing impulse load					High magnification Ni-Cd battery:		Medium magnification Ni-Cd battery:		Value controller sealed lead-acid battery	
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GZD、GZDW–100/110	380±10%	10	30	1	<70	4 ~ 6	0.3 ~ 0.5	200 ~ 500	5 ~ 6	1 ~ 30	100 ~ 400	3	4	5		3	3
GZD、GZDW–120/110	380±10%	11	35	1	<85	4 ~ 6	0.3 ~ 0.5	200 ~ 500	5 ~ 6	1 ~ 30	200 ~ 700	4	4	5		3	4
GZD、GZDW–150/110	380±10%	13	40	1	<110	4 ~ 6	0.3 ~ 0.5	200 ~ 500	5 ~ 6	1 ~ 30	200 ~ 700	4	5	5		3	4
GZD、GZDW–200/110	380±10%	15	45	1	<150	4 ~ 6	0.3 ~ 0.5	200 ~ 500	5 ~ 6	1 ~ 30	200 ~ 700	5		6		4	4
GZD、GZDW–250/110	380±10%	17	50	1	<180	4 ~ 6	0.3 ~ 0.5	200 ~ 500	5 ~ 6	1 ~ 30	200 ~ 700	5		6		4	5
GZD、GZDW–300/110	380±10%	22	60	1	<220	4 ~ 6	0.3 ~ 0.5	200 ~ 500	5 ~ 6	1 ~ 30	200 ~ 700	5		6		4	5
GZD、GZDW–350/110	380±10%	25	70	1	<260	6 ~ 40	0.3 ~ 0.5	200 ~ 500	6 ~ 40	1 ~ 30	400–1000	5		7		4	
GZD、GZDW–400/110	380±10%	30	80	1	<300	6 ~ 40	0.3 ~ 0.5	200 ~ 500	6 ~ 40	1 ~ 30	400–1000	5		7		5	
GZD、GZDW–500/110	380±10%	37	100	1	<370	6 ~ 40	0.3 ~ 0.5	200 ~ 500	6 ~ 40	1 ~ 30	400–1000			7		5	
GZD、GZDW–600/110	380±10%	42	120	1	<450	6 ~ 40	0.3 ~ 0.5	200 ~ 500	6 ~ 40	1 ~ 30	400–1000			10		5	
GZD、GZDW–800/110	380±10%	55	150	1	<600	6 ~ 40	0.3 ~ 0.5	200 ~ 500	6 ~ 40	1 ~ 30	400–1000			12		6	
GZD、GZDW–1000/110	380±10%	70	200	1	<800	6 ~ 40	0.3 ~ 0.5	200 ~ 500	6 ~ 40	1 ~ 30	800–3000			12		6	

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power board plane and installation

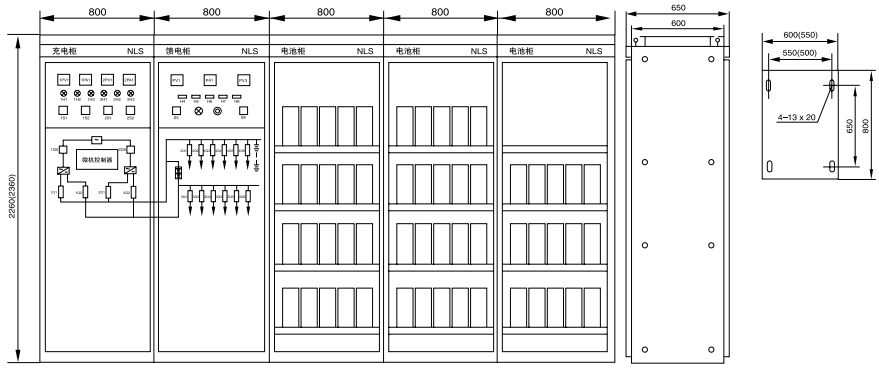


figure 11 DC power board plane arrangement and installation