Our goal is the sea of stars!

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Giantele®

GZDW

Dc power cabinet



www.giant-electric.com

ZHEJIANG ZHEGUI ELECTRIC CO., LTD.

Wall mounted DC power cabinet

GZDW-1

GZDW-1 wall-mounted DC power supply cabinet is a DC power supply system designed for various small capacity users. With LCD monitoring system as the core, Chinese menu display, key operation, multiple password rights, man-machine interface is friendly and rich, with compact structure, wall mounting, simple operation, intelligent management, high efficiency and energy saving and remote control. The system can be composed of monitoring module, rectifier module, buck module, battery inspection module, branch monitoring module, etc. The input voltage is AC220V,AC380V, the maximum output capacity is DC110V/65Ah, DC220V/50Ah. If the system needs to use PT100V AC input or provide external flash signal, accident signal, warning signal, DC24V or DC48V power supply and other functions can be selected and added according to user needs, and the external size can be customized.

Suitable for power plants, hydropower stations, all kinds of substations, switching-closing offices and other users using DC equipment, for electromagnetic operating mechanism, permanent magnet operating mechanism and spring energy storage operating mechanism and other types of circuit breakers, as well as secondary circuit instrumentation, control circuit, relay protection and accident lighting and other types of high and low voltage equipment to provide DC power supply.



Giantele®

Model meaning

ZG	–	G	Z	□	W	–	□	–	□	–	□	–	□	□
①		②	③	④	⑤		⑥		⑦		⑧		⑨	⑩

① Giantele
② Screen (cabinet)
③ DC power supply
④ Application type :D. power system, T. communication system
⑤ microcomputer type
⑥ Monitoring type :1:ZG-JK01B(wall mounted), 2:ZG-JK01B(vertical cabinet), 3:ZG-JK07T, 4:ZG-JK05T
⑦ Battery capacity (Ah), dual battery pack x2
⑧ Input voltage (AC):380V, 220V
⑨ Output voltage (DC):220V, 110V, 48V, 24V
⑩ Battery voltage (DC) : 12V, 2V

Enforce standards

DL/T 459-2017 DC power supply equipment for electric power; DL/T 637-2019 Fixed valve-controlled lead-acid battery for electric power;
DL/T 724-2000 Technical specification for operation and maintenance of accumulator DC power supply device for power system;
DL/T 781-2001 High frequency switching rectifier module for electric power;
DL/T 856-2004 DC power supply monitoring device for electric power;
DL/T 857-2004 Technical conditions for rectifier inverters for batteries in power plants and substations;
DL/T 1392-2014 DC power system insulation monitoring device technical conditions;
DL/T 5044-2014 Power engineering DC power system design technical specification;
GB/T 19826-2014 Power engineering DC power equipment general technical conditions and safety requirements;
GB/T 17626.18-2016 Electromagnetic compatibility test and measurement techniques Damping oscillation wave immunity test.

Technical parameter

Item	Parameter index
Rated input voltage	AC 220V/AC 380V±20%
PT service voltage	100VAC±10%
Rated output voltage	220VDC、110VDC
Rated output current	6A、9A、10A、15A
Accumulator capacity	7Ah、12Ah、20Ah、24Ah、33Ah、40Ah、50Ah、65Ah
Stable pressure accuracy	≤±0.5%
Stable flow accuracy	≤±1%
Ripple factor	≤±0.5%
Power grid frequency	50Hz±10%
Power factor	≥0.95%(full load output)
Insulation strength	>10MΩ，2KVAC for one minute,no flash over,no breakdown
Operate mode	Continuous long-term operation
Cooling-down method	Intelligent temperature-controlled air cooling,efficient and natural cooling
Can smell the noise	≤50dB

Microcomputer type DC power supply panel

GZDW-2

GZDW-2 microcomputer DC power supply panel is an economical DC power supply system designed for various small capacity users. The LCD screen monitoring system is the core, Chinese menu display, key operation, multiple password rights, man-machine interface is friendly and rich, with simple operation, intelligent management, high efficiency and energy saving and remote control. The system can be composed of monitoring module, rectifier module, buck module, battery inspection module, branch monitoring module, etc. The input voltage is AC220V, AC380V, the maximum output capacity is DC110V/65Ah, DC220V/55Ah. If the system needs to use PT100V AC input or provide external flash signal, accident signal, warning signal, inverter power supply, DC24V or DC48V power supply and other functions can be selected and added according to user needs, and the external size can be customized.

Suitable for power plants, hydropower stations, all kinds of substations, switching-closing offices and other users using DC equipment, for electromagnetic operating mechanism, permanent magnet operating mechanism and spring energy storage operating mechanism and other types of circuit breakers, as well as secondary circuit instrumentation, control circuit, relay protection and accident lighting and other types of high and low voltage equipment to provide DC power supply.



Giantele®

Model meaning

ZG	–	G	Z	□	W	–	□	–	□	–	□	–	□	□
①		②	③	④	⑤		⑥		⑦		⑧		⑨	⑩

① Giantele
② Screen (cabinet)
③ DC power supply
④ Application type :D. power system, T. communication system
⑤ microcomputer type
⑥ Monitoring type :1:ZG-JK01B(wall mounted), 2:ZG-JK01B(vertical cabinet), 3:ZG-JK07T, 4:ZG-JK05T
⑦ Battery capacity (Ah), dual battery pack x2
⑧ Input voltage (AC):380V, 220V
⑨ Output voltage (DC):220V, 110V, 48V, 24V
⑩ Battery voltage (DC) : 12V, 2V

Enforce standards

DL/T 459-2017 DC power supply equipment for electric power; DL/T 637-2019 Fixed valve-controlled lead-acid battery for electric power;
DL/T 724-2000 Technical specification for operation and maintenance of accumulator DC power supply device for power system;
DL/T 781-2001 High frequency switching rectifier module for electric power;
DL/T 856-2004 DC power supply monitoring device for electric power;
DL/T 857-2004 Technical conditions for rectifier inverters for batteries in power plants and substations;
DL/T 1392-2014 DC power system insulation monitoring device technical conditions;
DL/T 5044-2014 Power engineering DC power system design technical specification;
GB/T 19826-2014 Power engineering DC power equipment general technical conditions and safety requirements;
GB/T 17626.18-2016 Electromagnetic compatibility test and measurement techniques Damping oscillation wave immunity test.

Technical parameter

Item	Parameter index
Rated input voltage	AC 220V/AC 380V±20%
PT service voltage	100VAC±10%
Rated output voltage	220VDC、110VDC
Rated output current	6A、9A、10A、15A
Accumulator capacity	7Ah、12Ah、20Ah、24Ah、33Ah、40Ah、50Ah、65Ah
Stable pressure accuracy	≤±0.5%
Stable flow accuracy	≤±1%
Ripple factor	≤±0.5%
Power grid frequency	50Hz±10%
Power factor	≥0.95%(full load output)
Insulation strength	>10MΩ，2KVAC for one minute,no flash over,no breakdown
Operate mode	Continuous long-term operation
Cooling-down method	Intelligent temperature-controlled air cooling,efficient and natural cooling
Can smell the noise	≤50dB

Microcomputer type DC power supply panel

GZDW-3

GZDW-3 microcomputer DC power supply panel is a standard DC power supply system designed for users with different capacities. Using 7 inch touch screen monitoring system as the core, Chinese menu display, touch operation, multiple password permissions, man-machine interface friendly and rich, with simple operation, intelligent management, high efficiency and energy saving and remote control features. The system can be composed of monitoring module, rectifier module, buck module, battery inspection module, branch monitoring module and switch output module. The input voltage is AC220V, AC380V, and the maximum output capacity is DC110V/1500Ah, DC220V/1000Ah. If the system needs to provide external flash signal, accident signal, warning signal, inverter power supply, DC24V or DC48V power supply and other functions can be selected and added according to user needs, and the external size can be customized.

Suitable for power plants, hydropower stations, all kinds of substations, switching-closing offices and other users using DC equipment, for electromagnetic operating mechanism, permanent magnet operating mechanism and spring energy storage operating mechanism and other types of circuit breakers, as well as secondary circuit instrumentation, control circuit, relay protection and accident lighting and other types of high and low voltage equipment to provide DC power supply.



Model meaning

ZG	–	G	Z	□	W	–	□	–	□	–	□	–	□	□
①		②	③	④	⑤		⑥		⑦		⑧		⑨	⑩

① Giantele
② Screen (cabinet)
③ DC power supply
④ Application type :D. power system, T. communication system
⑤ microcomputer type
⑥ Monitoring type :1:ZG-JK01B(wall mounted), 2:ZG-JK01B(vertical cabinet), 3:ZG-JK07T, 4:ZG-JK05T
⑦ Battery capacity (Ah), dual battery pack x2
⑧ Input voltage (AC):380V, 220V
⑨ Output voltage (DC):220V, 110V, 48V, 24V
⑩ Battery voltage (DC) : 12V, 2V

Enforce standards

DL/T 459-2017 DC power supply equipment for electric power; DL/T 637-2019 Fixed valve-controlled lead-acid battery for electric power;
DL/T 724-2000 Technical specification for operation and maintenance of accumulator DC power supply device for power system;
DL/T 781-2001 High frequency switching rectifier module for electric power;
DL/T 856-2004 DC power supply monitoring device for electric power;
DL/T 857-2004 Technical conditions for rectifier inverters for batteries in power plants and substations;
DL/T 1392-2014 DC power system insulation monitoring device technical conditions;
DL/T 5044-2014 Power engineering DC power system design technical specification;
GB/T 19826-2014 Power engineering DC power equipment general technical conditions and safety requirements;
GB/T 17626.18-2016 Electromagnetic compatibility test and measurement techniques Damping oscillation wave immunity test.

Technical parameter

Item	Parameter index
Rated input voltage	AC 220V/AC 380V±20%
Rated output voltage	220VDC、110VDC
Rated output current	6A、9A、10A、15A、20A、30A、40A、50A、60A、70A、80A、90A、100A, 120A, 130A, 150A, 180A, 200A, 260A, 300A, ..
Accumulator capacity	7Ah、20Ah、38Ah、65Ah、100Ah、150Ah、200Ah、500Ah、600Ah、800Ah、.....
Stable pressure accuracy	≤±0.5%
Stable flow accuracy	≤±1%
Ripple factor	≤±0.5%
Power grid frequency	50Hz±10%
power factor	≥0.95%(full load output)
Insulation strength	>10MΩ，2KVAC for one minute,no flash over,no breakdown
operate mode	Continuous long-term operation
Cooling-down method	Intelligent temperature-controlled air cooling,efficient and natural cooling
Can smell the noise	≤50dB

Intelligent integrated power supply system

YTH

YTH series intelligent integrated power supply system is designed for a variety of large capacity users of AC and DC integrated power supply system. The integrated AC and DC power supply system adopts a layered distribution architecture. The station AC power supply, DC operation power supply, power special UPS and power special inverter (INV), DC/DC conversion power supply (DC/DC) and other equipment are designed and configured in an integrated way. Through a unified intelligent network platform, the centralized power supply and unified monitoring and management of the substation power supply are realized. Then the on-line state detection is realized. Its operating conditions and information data can be displayed and converted into standard model data through the integrated monitoring device, which is connected to the station control layer switch of the local automation system in the standard DL/T 860(IEC61850) format, and uploaded to the remote control center. The station AC power supply is composed of AC panel monitoring module, AC monitoring module, switch quantity monitoring module, automatic transfer switch ATS, incoming plastic-case switch, current transformer, intelligent power meter and feeder circuit breaker. It realizes the power distribution and protection from station power AC output to rectifier module, and fundamentally guarantees the safe and reliable switching of power supply. Dc operating power supply is a power supply that can reliably supply power to all control loads and various power loads in the substation under normal and accident conditions. The DC power system consists of DC panel monitoring module, rectifier module, buck module, battery inspection module, insulation monitoring module, switch quantity monitoring module, power distribution unit, and battery pack.

Suitable for power plants, hydropower stations, all kinds of substations, switching stations and other users using DC equipment, to provide a stable and reliable power supply for a variety of network communication instruments and equipment, and to ensure the safe and reliable operation of communication equipment.



Giantele®

Model meaning

ZG	–	YTH – □	/	□	U	–	□	/	□	–	D	–	□	□
①		②	③	④	⑤		⑥		⑦		⑧		⑨	⑩

① Giantele
② AC and DC integrated power supply
③ Battery capacity (Ah), two batteries ×2
④ DC screen rated output voltage (DC) :220V, 110V
⑤ UPS Code
⑥UPS capacity: 2KVA, 3KVA, 5KVA, 10KVA, 15KVA, 20KVA, 30KVA
⑦UPS rated output voltage (AC) : 220V, 380V
⑧ DC conversion module code
⑨ DC conversion module rated output voltage (DC) : 48V, 24V
⑩ DC conversion module output current: 20A, 30A, 40A, 60A, 80A, 100A, 150A

Enforce standards

DL/T 459-2017 DC power supply equipment for electric power; DL/T 637-2019 Fixed valve-controlled lead-acid battery for electric power;
DL/T 724-2000 Technical specification for operation and maintenance of accumulator DC power supply device for power system;
DL/T 781-2001 High frequency switching rectifier module for electric power;
DL/T 856-2004 DC power supply monitoring device for electric power;
DL/T 857-2004 Technical conditions for rectifier inverters for batteries in power plants and substations;
DL/T 1392-2014 DC power system insulation monitoring device technical conditions;
DL/T 5044-2014 Power engineering DC power system design technical specification;
GB/T 19826-2014 Power engineering DC power equipment general technical conditions and safety requirements;
GB/T 17626.18-2016 Electromagnetic compatibility test and measurement techniques Damping oscillation wave immunity test.

Technical parameter

Item	Parameter index
Rated input voltage	AC 380V±20%
AC input frequency	50Hz±10%
Rated AC output voltage	AC 380V、AC 220V
Rated AC output current	100A、160A、200A、300A、400A、630A
Rated DC output voltage	220VDC、110DC
Rated DC output current	30A、40A、60A、80A、100A、150A、200A
Accumulator capacity	100Ah、150Ah、200Ah、300Ah、400Ah、500Ah、600Ah、800Ah、1000Ah、1500Ah、2000Ah.....
Stable pressure accuracy	≤±0.5%
Stable flow accuracy	≤±1%
Ripple factor	≤±0.5%
UPS power rating	2KVA、3KVA、5KVA、10KVA、15KVA、20KVA、30KVA
UPS output voltage	AC 220V/AC380V±2%
UPS output frequency	50HZ±1%
The UPS output is required for the waveform distortion	5%(Linear load)
UPS dynamic response	5%(0%~100% load)
DC to transform the rated output voltage	48VDC、24VDC
DC conversion of the rated output current	20A、30A、40A、60A、80A、100A、150A
Insulation strength	>10MΩ 2kV AC for one minute,no flashover,no breakdown
Operate mode	Continuous long-term operation
Cooling-down method	Intelligent temperature control, air cooling, efficient and natural cooling