

# Low Voltage Switchgear



POWER TRANSMISSION AND  
DISTRIBUTION PRODUCT SELECTION

PROFESSIONAL MANUFACTURER OF  
HIGH AND LOW VOLTAGE PRODUCTS

**CNC**  
ELECTRIC

## Low Voltage Switchgear **GGD** Low Voltage Power Distribution Cabinet

- Rating: Rated voltage: 380V.
- 50-60Hz
- Application:  
mainly applicable in power station, power substation industrial and mining enterprises as energy converter, distributor and controller of power, light and distribution device.
- Standard: IEC60439-1

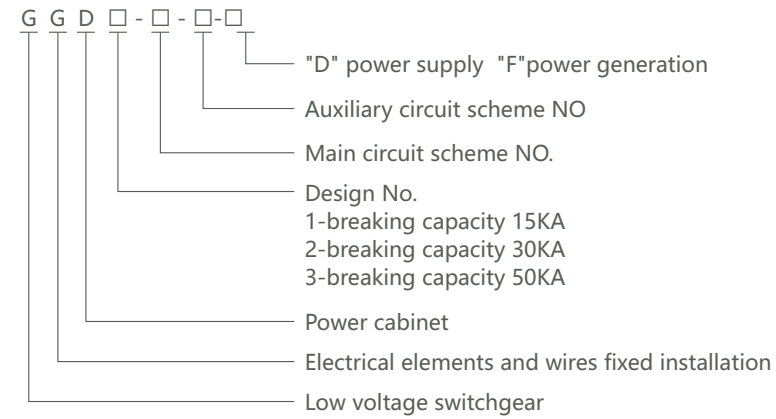
General



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## Low Voltage Switchgear GGD Low Voltage Power Distribution Cabinet

### Selection



### Operating conditions

1. Ambient air temperature: -15°C~+40°C  
Daily average temperature: ≤35°C  
When the actual temperature exceed the range, it should be used by reducing the capacity accordingly.
2. Transport and store temperature: -25°C~+55°C. do not exceed +70°C in short time.
3. Altitude: ≤2000m
4. Relative humidity: ≤50%, when temperature is +40°C  
When temperature is low, larger relative humidity is allowed. when it is +20°C, relative humidity can be 90%. Since the temperature change will make out condensation.
5. Installation inclination: ≤5%
6. Applicable in the places without corrosive and flammable gas.

Note: Customized products are available.

## Low Voltage Switchgear GGD Low Voltage Power Distribution Cabinet



### Technical data

#### 1. Main technical data

Sheet 1

| Type | Rated voltage (V) | Rated current (A) | Rated short-circuit breaking current (kA) | Rated short-circuit withstand current (1s)(1kA) | Rated peak withstand voltage (kA) |
|------|-------------------|-------------------|---|---|-----------------------------------|
| GGD1 | 380               | A 1000            | 15  | 15  | 30                                |
|      | 380               | B 600(630)        | 15  | 15  | 30                                |
|      | 380               | C 400             | 15  | 15  | 30                                |
| GGD2 | 380               | A 1500(1600)      | 30  | 30  | 63                                |
|      | 380               | B 1000            | 30  | 30  | 63                                |
|      | 380               | C 600             | 30  | 30  | 63                                |
| GGD3 | 380               | A 3150            | 50  | 50  | 105                               |
|      | 380               | B 2500            | 50  | 50  | 105                               |
|      | 380               | C 2000            | 50  | 50  | 105                               |

#### 2. Main bus

- 1) Single copper busbar adopted when the rated current ≤1500A
- 2) Double copper busbar adopted when the rated current >1600A.
- 3) Brushing & anodizing process adopted which is better than traditional zinc-coated process.

#### 3. Selection of horizontal bus

Sheet 2

| Rated current (A) | Copper Busbar specification (mm) |
|-------------------|----------------------------------|
| 400               | 40×4                             |
| 630               | 50×5                             |
| 1250              | 60×10                            |
| 1600              | 80×10                            |
| 2000              | 2×(60×10)                        |
| 2500              | 2×(80×10)                        |
| 3150              | 2×(100×10)                       |

#### 4. Selection of neutral earthgin bus

Sheet 3

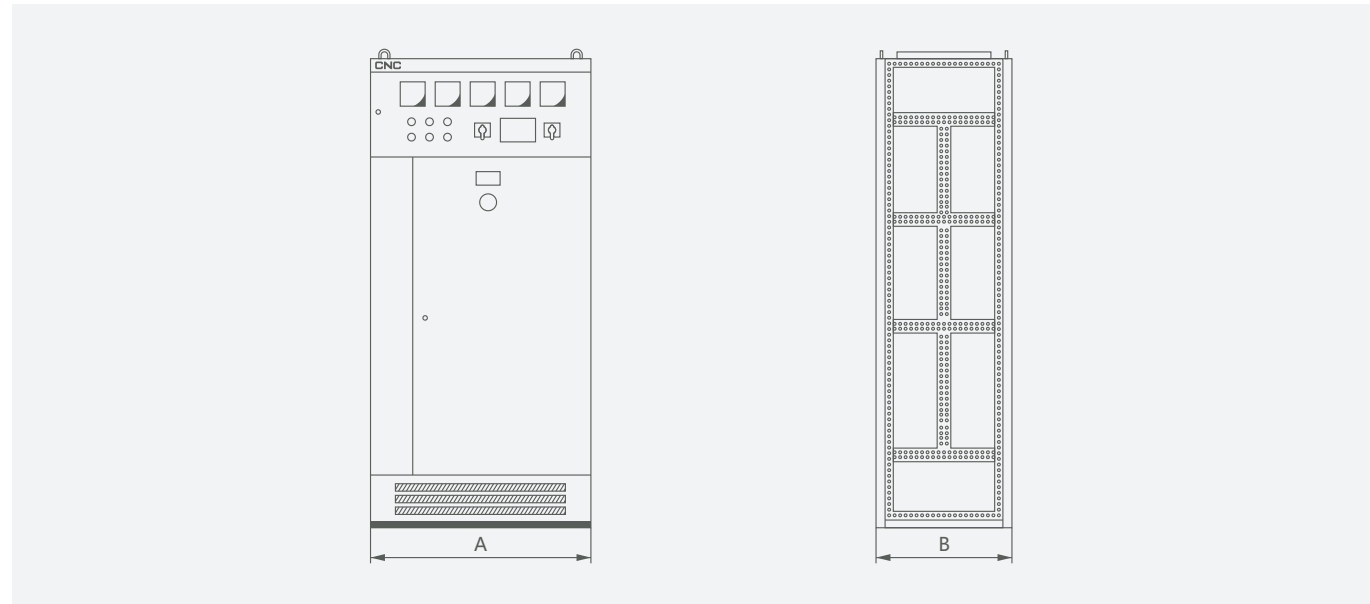
| Cross section of phase conductor (mm <sup>2</sup> ) | Cross section of PE(N) conductor (mm <sup>2</sup> ) |
|---|---|
| 500~720   | 40×5  |
| 1200  | 60×6  |
| >1200   | 60×10   |

## Low Voltage Switchgear GGD Low Voltage Power Distribution Cabinet

### Features

1. The accuracy and quality of the switchgear could be ensured as the framework parts and special parts supplied by CNC. Modular design of the Overall and mounting dimensions(mm) s concerning(E=20mm), which has cut production time and enhanced efficiency.
2. The heat dispensation channel at the top and bottom of the switchgear formulate a ventilation loop to dispense the heat.
3. Easy for installation and dismantling.
4. The switchgear with perfect earthing protection system.
5. The cover of the switchgear could be removed for installation and adjustment of the main bus bar. there are also rings for lifting and delivery of switchgear
6. The protection degree is IP30,As per you requirements,switchgears with protection degree of IP20~IP40 are available.
7. Flexible circuit plans are available.

### Overall and mounting dimensions(mm)



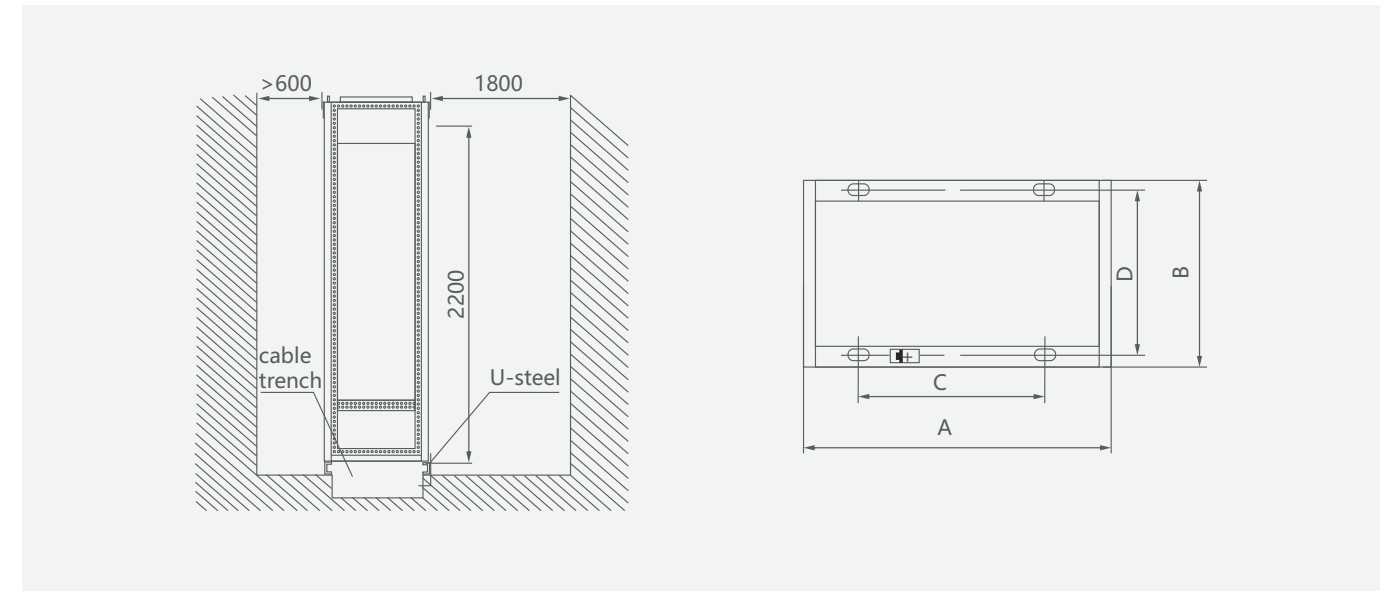
Picture 1

| Product code | A    | B   |
|--------------|------|-----|
| GGD 06       | 600  | 600 |
| GGD 06A      | 600  | 800 |
| GGD 08       | 800  | 600 |
| GGD 08A      | 800  | 800 |
| GGD 10       | 1000 | 600 |
| GGD 10A      | 1000 | 800 |
| GGD 12       | 1200 | 800 |

## Low Voltage Switchgear GGD Low Voltage Power Distribution Cabinet

### Installation Overall and mounting dimensions(mm)

Picture 2



| Product code | A    | B   | C    | D   |
|--------------|------|-----|------|-----|
| GGD 06       | 600  | 600 | 450  | 556 |
| GGD 06A      | 600  | 800 | 450  | 756 |
| GGD 08       | 800  | 600 | 650  | 556 |
| GGD 08A      | 800  | 800 | 650  | 756 |
| GGD 10       | 1000 | 600 | 850  | 556 |
| GGD 10A      | 1000 | 800 | 850  | 756 |
| GGD 12       | 1200 | 800 | 1050 | 756 |

### Ordering information

Please specify the following information when ordering:

1. The full model ,including main circuit plan and auxiliary circuit plan.
2. The diagram of main circuit system allocation.
3. Inner allocation diagram of the switchgear.
4. Electric diagram of auxiliary contact.
5. Name ,Model ,Specification and list of adopted components.
6. Customized products are available.