

## Product Overview

The XL-21 power box is widely used in power plants and industrial and mining enterprises for power or lighting distribution in distribution systems such as three-phase three wire, three-phase four wire, and three-phase five wire below 500V. It is installed indoors against the wall, operated in front of the screen, and maintained in front of the screen; The box is a fully enclosed structure, assembled from C or 8MF profiles. The box adopts a new type of rotary load isolation switch, which can be operated with load. The front door is equipped with voltage and current indicator instruments, as well as main control components such as signal lights, buttons, and conversion switches. This distribution box adopts newly designed components, which are compact in structure, aesthetically pleasing in appearance, and easy to maintain. Multiple wiring schemes are available for users to choose from

## 产品型号说明

X L (F) - 21 - □

① ② ③ ④ ⑤

①	箱式
②	动力
③	防尘式
④	设计序号
⑤	主电路方案号

## Usage conditions

Environmental temperature: -5 °C~+40 °C, and the average temperature within 24 hours does not exceed+35 °C

Altitude: not exceeding 2000m

Relative humidity: not exceeding 50% when the ambient air temperature is+40 °C; At lower temperatures, there can be higher relative humidity (such as 90% at+20C), allowing for moderate condensation due to temperature changes

The inclination angle between the equipment and the vertical plane during installation should not exceed 5 °

The equipment should be installed in a place without severe vibration, impact, and corrosion

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

## Product Technical Features

The electrical performance fully complies with the relevant provisions of GB 7251.1 and IEC 60439-1

The feed out switch adopts a new type of molded case circuit breaker and compound release with small size, high breaking capacity, short arcing (or no arcing), equipped with overload and short circuit protection functions, and can be equipped with leakage protection function according to user requirements

The motor circuit has overload, short circuit, undervoltage, and phase loss protection functions

The auxiliary circuit has local and remote control functions, as well as local and remote automatic switching functions

## 技术参数

序号	名称	单位	数据
1	主电路额定电压	V	AC:380
2	辅助电路额定电压	V	AC:220,380
3	额定频率	HZ	50
4	额定绝缘电压	V	660
5	额定电流	A	≤ 800A

## Precautions before installation, acceptance, and commissioning

After the product arrives, the first thing to check is whether the packaging is intact and undamaged. If any problems are found, relevant departments should be notified in a timely manner to find the cause. For products that are not installed immediately, they should be placed in suitable places according to the regulations of the usage conditions

The product installation foundation channel steel and bolts are provided by the user, and the connection holes between the foundation channel steel and the cabinet body are provided

After installation, the product should undergo inspections and tests before being put into operation

Check whether the cabinet body has peeled off the multi-layer paint film, and whether the inside of the cabinet is dry and clean

Whether the on/off of main electrical appliances and auxiliary contacts is reliable and accurate

Whether the selection and wiring principles of the main components are consistent with the schematic diagram


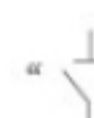





Use a 500V megohmmeter with an insulation value not less than 1M Ω. When measuring, be careful not to disconnect the wires that cannot withstand voltage and electronic components

## Precautions for use

After multiple cycles of opening and closing, low-voltage air circuit breakers and other devices may cause local burns to the main contacts and produce carbon based substances, resulting in increased contact resistance. Universal low-voltage air circuit breakers should be regularly maintained and inspected according to their instructions

## 主回路方案

注:

- “” 为隔离开关: 型号可选用 QSA 系列、HR5(箱内操作);
- “” 为隔离开关: 型号可选用 QA、QP 系列;
- “” 为熔断器: 型号可选用 RTO、NT00 等;
- “” 为断路器: 型号可选用 DZ20、NM1、DZ47、NS、C45 等;
- “” 为接触器: 型号可选用 CJ20、B 系列、N 系列等;
- “” 为热继电器: 型号可选用 JR20、JRS1、NR3 系列等;
- “” 为互感器: 型号可选用 LMZJ1-0.5、LMK1-0.66 等;

以上产品型均可由客户另行指定。

## Ordering Notice

All product models (including main circuit scheme number and auxiliary circuit scheme number)

Main circuit system diagram, cabinet layout plan

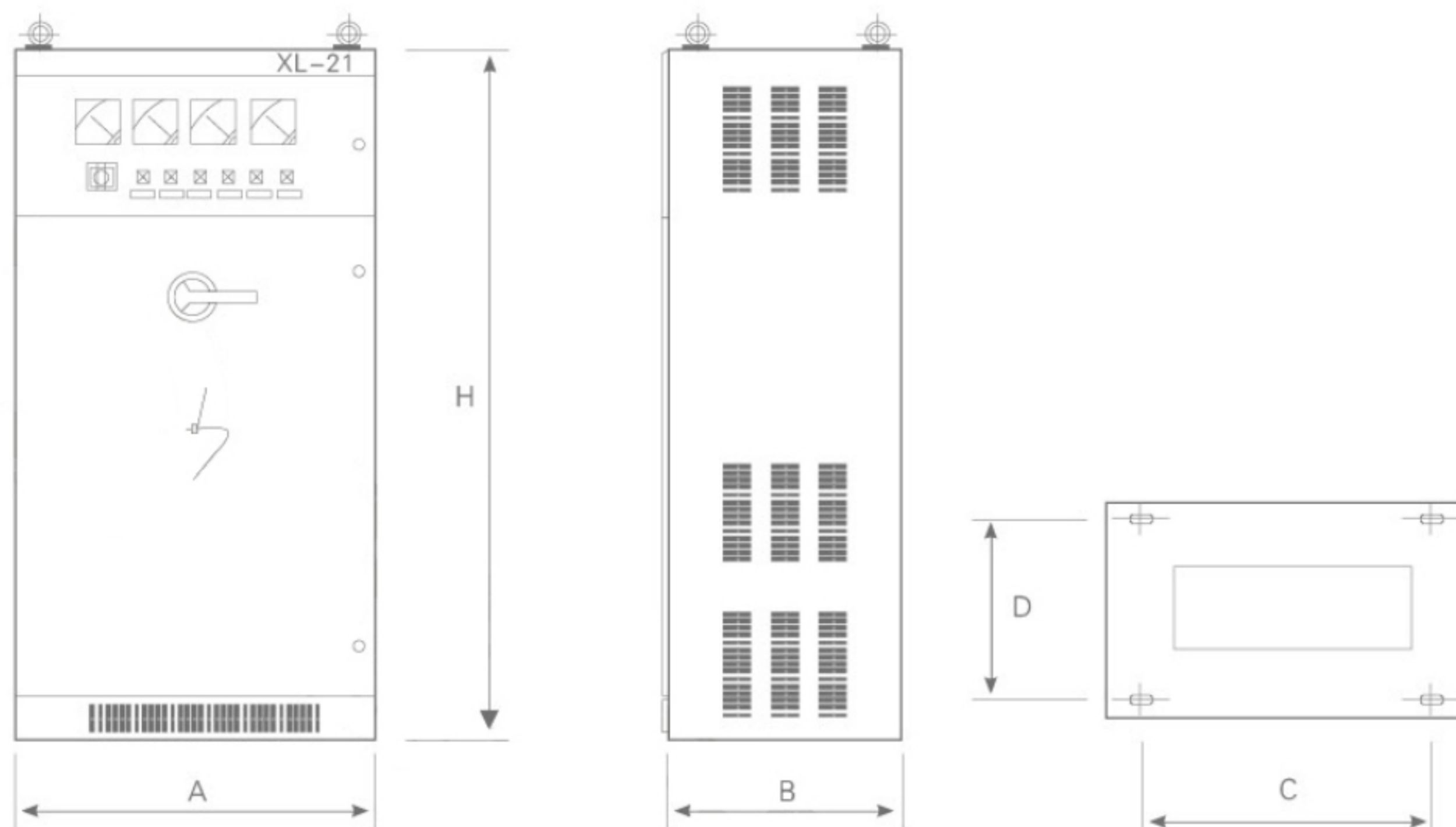
Electrical schematic diagram of auxiliary circuit

List of components inside the cabinet (specifications of the main busbar)

Cabinet color, (if not specified, supplied in light camel gray) box size

Other special requirements that do not comply with the product's usage conditions should be resolved through negotiation with the manufacturer

## 箱体外形及安装尺寸



A	B	C	D	H
800(600) 可选	500(400) 可选	650(450)	450(350)	1800(1600) 可选

新 HTXL-21 型动力配电柜外形及安装尺寸图