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-RMU (sf6 free ) (1)-

**Product Catalog**

DSJ Electrical Co.,Ltd





## About DSJ

### Building Power, Building Trust: **42 Years of Excellence**

Founded in 1983, DSJ has established itself as a leading force in China's electrical distribution industry, with 42 years of expertise in both medium-voltage and low-voltage electrical products.

As an outstanding enterprise, DSJ boasts independent research, development, production, and sales capabilities, ensuring that we can meet customers' needs with the fastest delivery and the highest level of customization. Our workforce consists of over 300 employees, including 50 senior management professionals, 30 experienced engineers, 8 senior designers, and 5 senior technicians.

We specialize in the manufacturing of distribution, circuit protection, and photovoltaic products that exceed both national and international quality standards. Over the past 40 years, DSJ has provided high-quality, safe electrical products to public facilities, large enterprises, and residential sectors worldwide, with one of the lowest return rates in the industry.

As a well-recognized Chinese brand, DSJ is dedicated to upholding our brand integrity. We adhere to the core philosophy of "Quality First, Customer Priority, and Integrity at the Core," striving to bring premium Chinese power equipment and exceptional service capabilities to customers worldwide.

#### Core Ideology

**Quality First**

**Customer Priority**

**Integrity at the Core**

 **40+**  
Years of Excellence

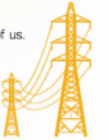
Established in 1983, DSJ has delivered trusted solutions for over four decades, solidifying its position as a pioneer in electrical equipment.

 **15,000+**  
Square Meters of Facility

Strong manufacturing capabilities, with the capacity to produce 8,000 units per month.

 **\$108**  
Million in Revenue

The continuous growth in sales volume demonstrates the market's recognition of us.



# Factory Introduction



DSJ is a financially robust company with a registered capital of **7.84 million USD** and a facility spanning more than **15,000 square meters**.

Our production capabilities are supported by **30 units** of intelligent product testing and debugging equipment, **50 machine tools**, and **6 automated production lines**.

DSJ is also home to four innovation laboratories, holding more than **60 national invention patents**.

**Crafting Quality Electrical Products for Over 40 Years**



# Honors and Certifications

• We are holding more than 60 national invention patents

## Invention Patent



• We have been awarded numerous prestigious national-level honors



## Utility Model Patent



## 概述 General Introduction



EGS -12 系列环保气体绝缘环网柜是北京银塔科技有限公司为响应国家电网标准化建设, 满足安全可靠, 坚固耐用, 标准统一, 通用互换的原则, 提升环网柜运维可靠性而自主研发的一款 12kV 环保气体绝缘环网柜标准化定制方案产品。产品全面引进先进的生产设备及制造技术, 实现本地化生产, 大大降低了制造成本, 缩短了交货周期, 推出后深受用户好评。

EGS -12 series of environmental-friendly gas insulated RMU is a standardized customized product independently developed by DSJ Electrical Co., Ltd. The RMU meets the principle of safety, reliability, durability, unified standards and general interchange, and improves the operation and maintenance reliability of the RMU which is response to the national distribution network standardization construction. The products are fully introduced advanced production equipment and manufacturing technology, localize the production, greatly reduce the manufacturing cost, shorten the delivery cycle. It was fully accepted and praised by users after the launch.



## 产品特点 Product Features

### ● 功能复合、一体化产品

开关设备的充气壳体采用高品质的厚 2.5mm 不锈钢板通过激光焊接而成, 保证气箱密闭可靠性, 机械强度高, 耐腐蚀性好, 充气壳体的防护等级达到 IP67; 气箱装有防爆膜片, 能有效防止气压过高时对人及设备造成的损害; 将全部导电部件封闭在气箱当中, 既能避免外界环境因素的影响, 又能提高运行可靠性, 使其具备免维护 (或少维护) 的功能, 同时还能符合体积小小型化要求。

开关采用三工位 (隔离 + 接地) + 真空灭弧室, 该结构是目前技术最成熟的配置方式, 特别适合目前电网运行维护需求。

### ● 环保、无污染

EGS -12 系列充气柜的绝缘介质是零级干燥空气 (外购) 或符合 GB/T 8979-2008 的 99.99% 纯 N<sub>2</sub>, 气体的泄露对外界环境不会造成任何影响, 无需进行任何回收处理。

### ● 完善的机械连锁

EGS -12 系列充气柜的操作面板具有完善的五防机械连锁功能, 所有的连锁功能都在内部已配置好, 操作时请按操作说明顺序操作, 使用非常方便。

### ● 灵活的拓展化设计

EGS -12 系列充气柜为模块化设计, 可以将各种模块通过专用的母线连接件, 实现多样化的单元组合, 最大限度的满足中国各个地方复杂多样的配电设计方案。

### Functional composite, integrated products

The gas-filled shell of switch equipment is made of high-quality 2.5mm stainless steel plate welded by laser, which ensures airtight reliability, high mechanical strength and good corrosion resistance. The protection grade of the gas-filled shell reaches IP67. The gas tank is equipped with explosion-proof diaphragm, which can effectively prevent the damage to people and equipment when the air pressure is too high. The sealing of all conductive parts in the gas tank can not only avoid the influence of external environmental factors, but also improve the operation reliability, so that it has the function of free maintenance (or less maintenance), and at the same time can meet the requirements of miniaturization.

The switch adopts three-station (isolation + ground) + vacuum interrupter. This structure is the most mature configuration mode with current technology, and it is especially suitable for the current operation and maintenance requirements of power grid.

### Environmental protection and pollution free

The insulation medium of EGS-12 series gas filled tank is zero-level dry air (outsourcing) or 99.99% pure N<sub>2</sub> that in line with GB/T8979-2008. The gas leakage will not cause any impact to external environment, therefore no recycling work is needed.

### Complete mechanical interlock

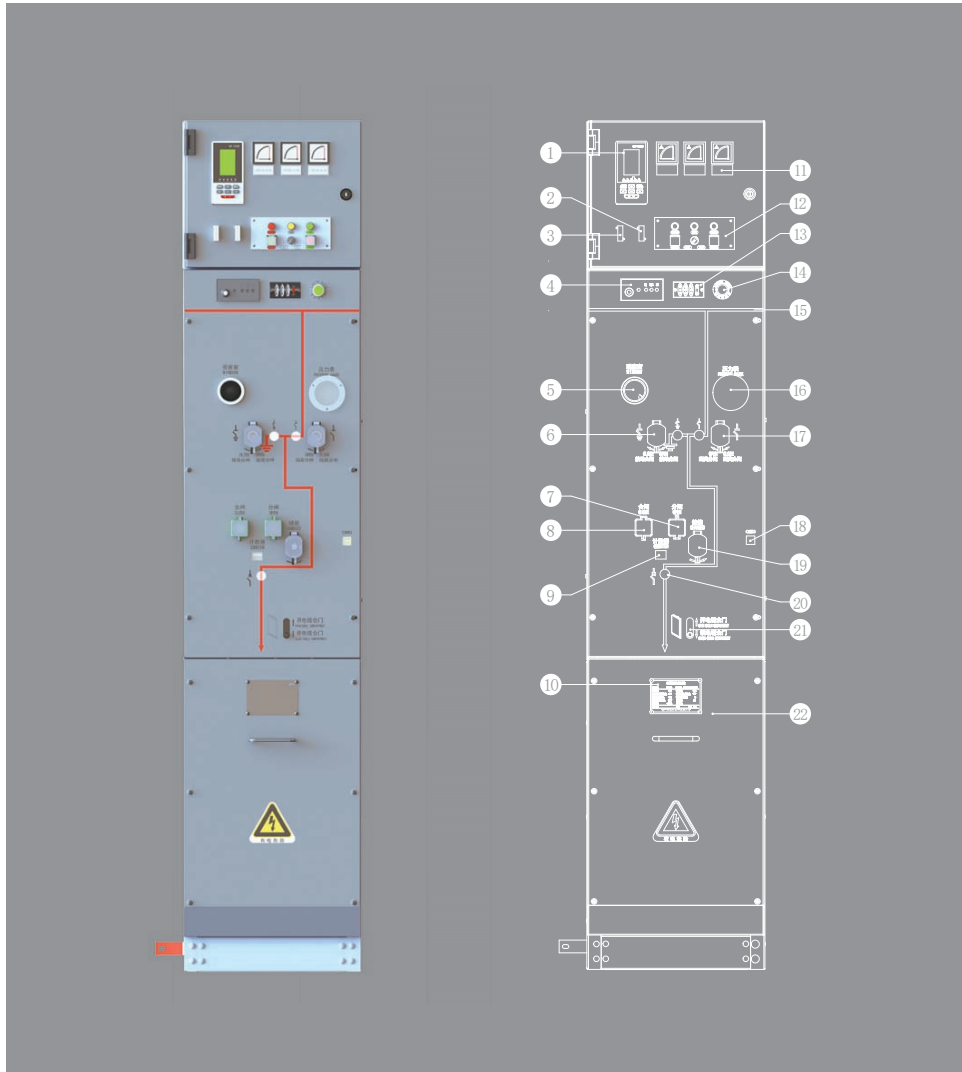
The operation panel of EGS-12 series inflating cabinet has perfect five anti-mechanical interlocking function, all interlocking functions have been configured internally, please operate in accordance with the operation instructions in order, it is very convenient to use.

### Flexible extension design

The EGS-12 series inflating cabinet is modular in design, which can combine various modules through special busbar connector, realize diversified unit combination, and satisfy the complex and diverse distribution design scheme in various places to the greatest extent.



## 产品结构 Product Structure

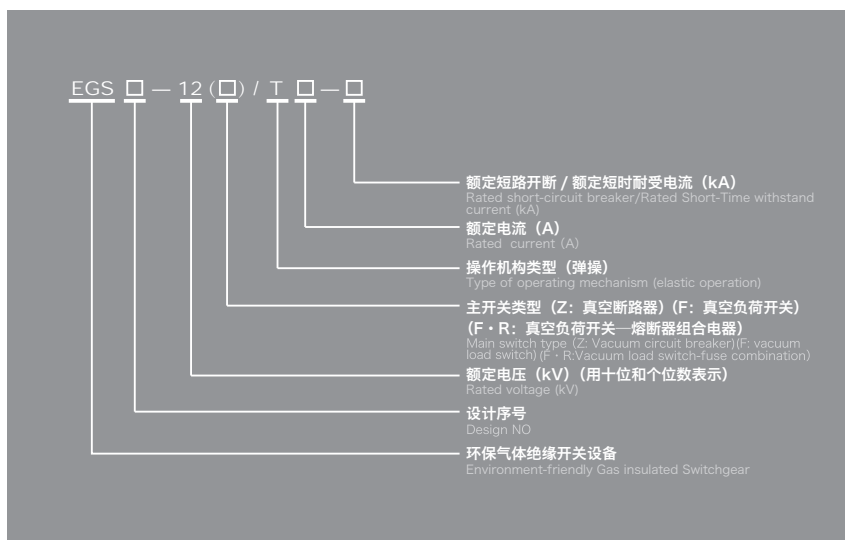


1. 微机综合保护装置
2. 保护跳闸压板
3. 保护合闸压板
4. 故障指示器  
检测供电线路中电流，当出现短路故障电流、接地故障电流时出现报警指示。
5. 隔离观察窗  
通过此观察窗，可以看到接地开关的分闸情况以及隔离开关是处于合闸还是分闸。
6. 接地开关操作孔  
利用操作手柄转动接地开关操作轴，可对地进行分、合闸操作，不操作时可配置挂锁，防止非授权人员误操作。
7. 主开关分闸按钮  
可通过分闸按钮对主开关进行分闸操作。
8. 主开关合闸按钮  
可通过合闸按钮对主开关进行合闸操作。
9. 计数器指示  
指示主开关操作机构的累积合分闸次数。
10. 铭牌
11. 电流表
12. 开关控制器  
带保护罩按钮型组合电器单元。集成了储能、合分闸指示、合分闸按钮、就地远方转换开关等功能组成的控制模块。
13. 容性带电指示器  
带电指示器显示套管是否带电，指示灯下方三个插口可用于二次核相。带电指示器设置开关按钮，有效延长了使用寿命。
14. 隔离照明按钮  
通过观察窗照明按钮控制照明灯的开关。
15. 模拟线路图
16. 气压表  
显示气箱内部相对外部的气压值。
17. 隔离开关操作孔  
利用操作手柄转动隔离开关操作轴，可对隔离开关进行分、合闸操作，不操作时可配置挂锁，防止非授权人员误操作。
18. 主开关储能指示  
观察主开关储能指示可以掌握主开关操作机构的储能情况。
19. 储能操作孔  
利用操作手柄转动储能机构轴，令主开关操作机构储能。不操作时可配置挂锁，防止非授权人员误操作。
20. 主开关合闸、分闸指示孔  
当主开关合闸后，指示孔显示模拟线路连通；主开关分闸时，指示孔模拟线路不连通。
21. 柜门联锁装置  
电缆室门与接地开关互锁。当装有互锁机构时，只有在接地开关处于接地合闸以及柜门联锁拉至解锁位置，电缆室门才可打开，柜门打开后，开关将无法操作。
22. 电缆室门

1. Microcomputer integrated protection device
2. Protect the tripping pressure plate
3. Protect the closing pressure plate
4. Fault indicator  
Detect the current in the power supply line and give an alarm indication when short-circuit fault current and ground fault current occur.
5. Isolation observation window  
Through this observation window, we can see the opening and closing of the earth switch and whether the isolation switch is on or off.
6. Earthing switch operation hole  
Turning the ground switch operating shaft by using the operating handle could open or close the grounding. The padlock can be configured when not in operation to prevent unauthorized personnel from misoperation.
7. Main switch opening button  
The main switch can be opened through the opening button.
8. Main switch closing button  
The main switch can be closed through the closing button.
9. Counter indication  
Indicates the cumulative closing and opening times of the main switch operating mechanism.
10. Nameplate
11. Amperemeter
12. Switch controller  
Button type modular electrical unit with protective cover. Integrating a control module composed of energy storage, closing and opening switch indication, closing and opening button, local remote transfer switch, etc.
13. Capacitive potential indicator  
A charge indicator indicates whether the casing is live or not. The three sockets below the indicator light can be used for secondary nuclear phase. Switch button is set for live indicator, which effectively prolongs service life.
14. Isolation lighting button  
Control the switch of the floodlight through the observation window lighting button.
15. Analog circuit diagram
16. Air pressure gauge  
Display the air pressure inside the air tank relative to the outside.
17. Isolation switch operation hole  
Turn the operating shaft of the isolation switch with the operating handle to open and close the isolation switch. Padlock can be configured in case of non-operation to prevent unauthorized personnel from misoperation.
18. Main switch energy storage indicator  
Observe the main switch energy storage indicator can grasp the main switch operating mechanism energy storage situation.
19. Energy storage operation hole  
Use the operating handle to rotate the shaft of the energy storage mechanism, so that the main switch operating mechanism energy storage. The padlock can be configured when not in operation to prevent unauthorized personnel misoperation.
20. Main switch closing and opening indicator hole  
When the main switch closes, the indicator hole shows that the analog circuit is connected. When the main switch is opening, the analog circuit of the indicator hole is not connected.
21. Cabinet door interlock device  
Cable compartment door and ground switch are interlocked. When an interlock mechanism is installed, the cable compartment door can only be opened when the ground switch is in the ground closing position and the cabinet door interlock is pulled to the unlocking position. After the cabinet door is opened, the switch cannot be operated.
22. Cable compartment door



## 型号说明 Model Code



## 使用环境 Operating Environment

- 2.4.1 海拔高度: ≤2000m (安装海拔高度超过 2000m 请联系兴厦控公司)。
- 2.4.2 环境温度: 最高温度: 40°C; 最低温度: -40°C; 24h 内平均气温不超过 35°C。
- 2.4.3 环境湿度: 24h 相对湿度平均不超过 95%; 月相对湿度平均值不超过 90%。
- 2.4.4 安装环境: 周围空气没有爆炸性和腐蚀性气体, 安装场所无剧烈振动冲击。
- 2.4.5 抗震裂度: 8 度。
- 2.4.1 Altitude: ≤2000m (please contact us for installation altitude exceeding 2000m).
- 2.4.2 Environmental temperature: Maximum temperature: 40°C; Minimum temperature: -40°C; The average temperature within 24 hours does not exceed 35°C.
- 2.4.3 Environmental humidity: The average relative humidity within 24 hours shall not exceed 95%; The average monthly relative humidity does not exceed 90%.
- 2.4.4 Installation environment: there is no explosive or corrosive gas in the surrounding air, and no violent vibration and impact in the installation site.
- 2.4.5 Seismic cracking: 8 degrees.



## 依据标准 Standards

- GB/T 11022—2011 高压开关设备和控制设备标准的公用技术要求  
Public technical requirements for high voltage switchgear and control equipment standards
- GB 3906—2020 3.6kV ~ 40.5kV 交流金属封闭开关设备和控制设备  
3.6kV ~ 40.5kV AC metal enclosed switching equipment and control equipment
- GB 1984—2014 高压交流断路器  
High voltage AC circuit breaker
- GB 3804—2004 3.6kV ~ 40.5kV 高压交流负荷开关  
3.6kV ~ 40.5kV High voltage AC load switch
- GB 16926—2009 高压交流负荷开关—熔断器组合电器  
High voltage AC load switch - fuse combination
- GB 1985—2014 高压交流隔离开关和接地开关  
High voltage AC isolating switch and earthing switch
- GB 3309-1989 高压开关设备常温下的机械试验  
Mechanical test for high voltage switchgear at normal temperature
- DL/T404-2007 3.6kV~40.5kV 交流金属封闭开关设备和控制设备  
3.6kV~40.5kV AC metal enclosed switching equipment and control equipment
- JB/T 3855—2008 3.6kV ~ 40.5kV 户内交流高压真空断路器  
3.6kV ~ 40.5kV Indoor AC high voltage vacuum circuit breaker
- GB 4208—2008 外壳防护等级 (IP 代码)  
Shell Protection Class (IP code)
- GB/T 4205—2010 人机界面 (MMI)—操作规则  
Man-Machine Interface (MMI) -- Operating rules
- GB/T 6388—1986 运输包装收发货标志  
Transportation packaging shipping mark
- GB 9969—2008 工业产品使用说明总则  
General instructions for industrial products
- GB/T 13384—2008 机电产品包装通用技术条件  
General technical conditions for packaging mechanical and electrical products
- GB/T 14436—1993 工业产品保证文件总则  
General provisions for industrial product warranty documents
- GB/T 191—2008 包装储运图示标志  
Packing, storage and transportation pictorial marks



## 技术参数 Technical Parameters

EGS-12 系列环保气体绝缘环网开关设备主要技术参数表

项目		单位	断路器	负荷开关
额定电压		kV	12	12
额定电流		A	630/1250	630
额定频率		Hz	50	50
额定绝缘水平	1min 工频耐压 (相间及相对地)	kV	42	42
	1min 工频耐压 (隔离断口)		48	48
	工频耐压 (控制和辅助回路)		2	2
	雷电冲击耐压 (相间及相对地)		75	75
	雷电冲击耐压 (隔离断口)		85	85
额定短路开断电流		kA	20/25/31.5	50/63
额定短路关合电流		kA	50/63/80	50
额定短时耐受电流		kA	20/25/31.5	20/25
额定短路持续时间		s	4	4
额定峰值耐受电流		kA	50/63/80	50/63
交流电流 / 转移电流		A	—	—
额定操作顺序		—	O—0.3s—CO—180s—CO	
机械寿命		次	10000	10000
主回路电阻		$\mu\Omega$	$\leq 150$	$\leq 150$

以上参数满足国家电网公司、南方电网公司及江苏省电力公司 12kV 环网开关设备 II 类接地系统技术规范，全面兼容不同的中性点接地方式。配合 EGS-12 系列 12kV 电缆附件可实现三路电缆连接组合或两路电缆加一路避雷器连接组合。

备注：I 类：中性点经低电阻接地系统；

II 类：中性点经消弧线圈接地或不接地系统。



Main technical parameters table of EGS-12 series environmentally friendly gas insulated RMU switchgear equipment

Item		Unit	Circuit Breaker	Load switch
Rated voltage		kV	12	12
Rated current		A	630/1250	630
Rated frequency		Hz	50	50
Rated insulation level	Power frequency voltage withstand/min (phase to phase and phase to ground)	kV	42	42
	Power frequency voltage withstand/min (isolating distance)		48	48
	Power frequency voltage withstand/min (control and auxiliary loop)		2	2
	Lightning impulse withstand voltage (phase to phase and phase to ground)		75	75
	Lightning impulse withstand voltage (isolating distance)		85	85
Rated short circuit breaking current		kA	20/25/31.5	50/63
Rated short circuit closing current		kA	50/63/80	50
Rated short-time withstand current		kA	20/25/31.5	20/25
Rated duration of short-circuit		s	4	4
Rated peak withstand current		kA	50/63/80	50/63
Take over current/transfer current		A	—	—
Rated order of operation		—	O—0.3s—CO—180s—CO	
Mechanical life		Times	10000	10000
Main circuit resistance		$\mu\Omega$	$\leq 150$	$\leq 150$

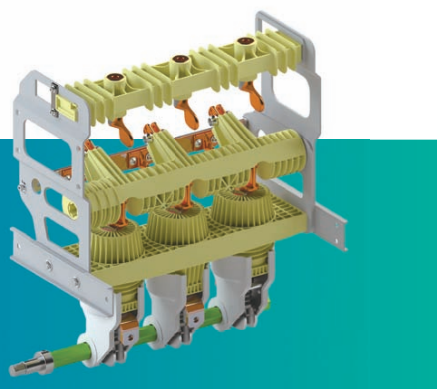
All the above parameters have met the technical specifications of type II grounding system for 12kV ring main switchgear set by the State Grid, China Southern Power Grid and the Jiangsu Electric Power Company, fully compatible with different neutral point grounding mode.

The combination of three-way cable or two-way cable plus one-way lightning arrester combination can be realized with combination of the EGS-12 series 12kV cable accessories.

Note: I categories: neutral point by the low resistance grounding system;

II categories: neutral point via arc suppression coil grounded or not grounded system.

## 基本单元方案 Basic unit solution



### 基本单元方案简介 Basic unit solution Introduction

#### 3.1 负荷开关单元 C

##### 标准配置与特性:

630A 母线  
真空负荷开关  
真空负荷开关手动操作机构  
三工位隔离开关  
三工位隔离开关手动操作机构  
负荷开关和三工位隔离开关位置指示牌  
电缆连接套管  
显示套管带电的容性电压指示器  
压力表  
柜体  
接地母排  
操作手柄

##### 可选配置与特性:

真空负荷开关电动操作机构  
短路及接地故障指示器  
可分离连接器 (电缆接头)  
避雷器  
进线带电接地闭锁装置  
钥匙机械互锁装置  
环形电流互感器

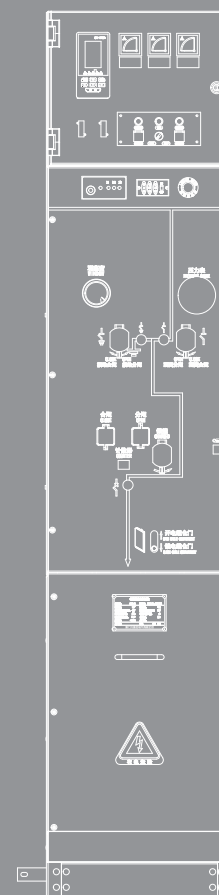
#### 3.1 Load Switch Unit-C

##### Standard configuration and features:

630A Busbar  
Vacuum load switch  
Vacuum load switch manual operation mechanism  
Three-position disconnector switch  
Three station isolation switch manual operation mechanism  
Position indicator of load switch and three-station isolation switch  
Cable sleeve  
Capacitive voltage indicator display bushing charged  
The pressure gauge  
Cabinet  
Earthing bar  
Operating handle

##### Optional configuration and features:

Vacuum load switch electric operating mechanism  
Short and grounded fault indicator  
Separable connector (cable connector)  
Lightning arrester  
Locking device of grounding/charging income line  
Key mechanical interlock device  
Ring current-transformer



### 3.2 真空断路器单元 V

#### 标准配置与特性:

630A/1250A 母线  
真空开关  
真空开关电动操作机构  
三工位隔离开关  
三工位隔离开关手动操作机构  
真空开关和三工位隔离开关位置指示牌  
电缆连接套管  
显示套管带电的容性电压指示器  
压力表  
挂锁装置  
柜体  
接地母排  
操作手柄  
电流互感器 (保护专用)  
数字式继电保护装置

#### 可选配置与特性:

短路及接地故障指示器  
可分离连接器 (电缆接头)  
避雷器  
进线带电 / 接地闭锁装置  
钥匙机械互锁装置  
环形电流互感器及表计

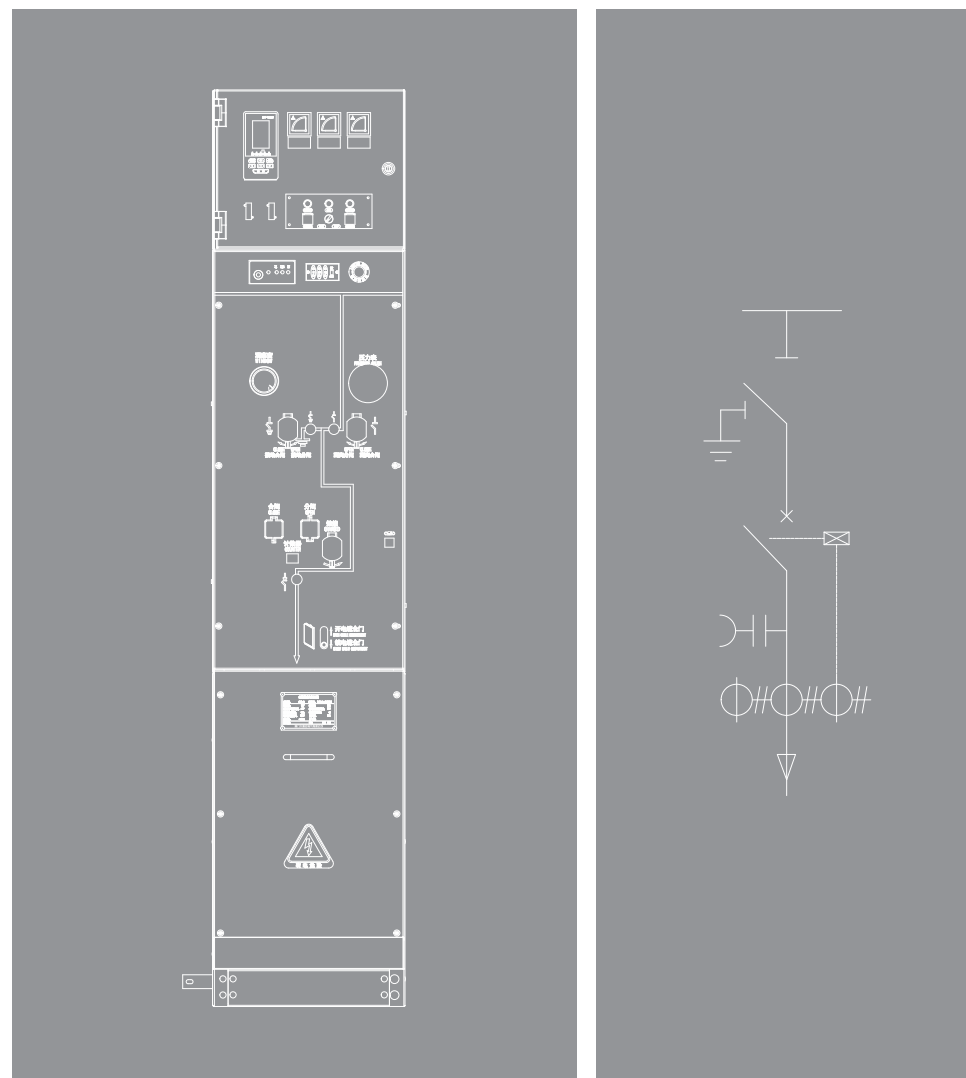
### 3.2 Vacuum Circuit Breaker Unit-V

#### Standard configuration and features:

630A/1250A Busbar  
Vacuum switch  
Vacuum switch electric operation mechanism  
Three-position disconnecter switch  
Three station isolation switch manual operation mechanism  
Position indicator of vacuum switch and three-station isolation switch  
Cable sleeve  
Capacitive voltage indicator display bushing charged  
The pressure gauge  
The padlock device  
Cabinet  
Earthing bar  
Operating handle  
Current transformer (special for protection)  
Digital relay protection device

#### Optional configuration and features:

Short circuit and ground fault indicators  
Separable connector (cable connector)  
Lightning arrester  
Locking device of grounding/charging income line  
Key mechanical interlock device  
Ring current transformer and meter



### 3.3 电压互感器单元 PT

#### 标准配置与特性:

- 2 只电流互感器
- 保护 PT 的熔断器
- 1 只带转换开关的电压表
- 显示套管带电的容性电压指示器
- 柜体
- 压力表

#### 可选配置与特性:

- 3 只电压互感器
- 避雷器

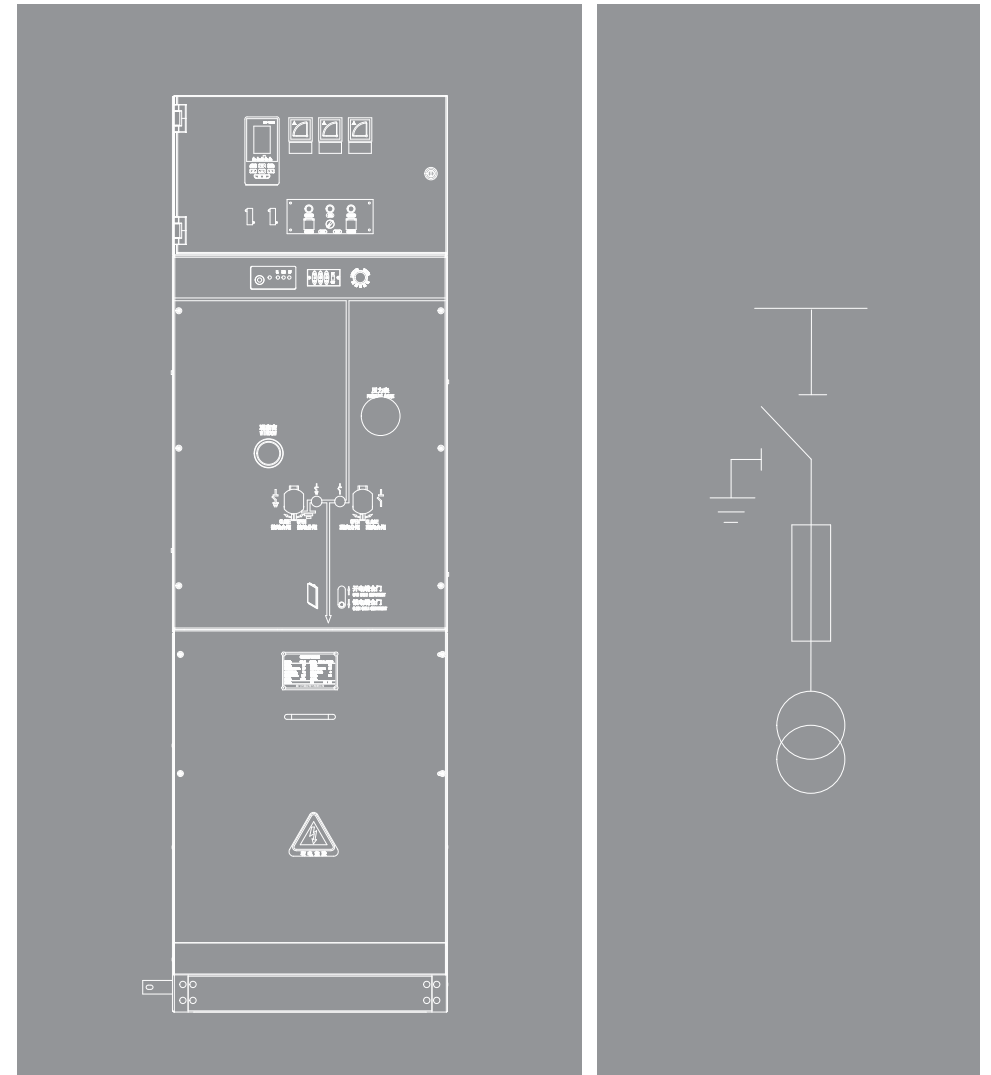
### 3.3 Voltage Transformer Unit-PT

#### Standard configuration and features:

- Two current transformers
- Fuses that protect PT unit
- One voltmeter with transfer switch
- Capacitive voltage indicator display bushing charged
- Cabinet
- The pressure gauge

#### Optional configuration and features:

- Three voltage transformers
- Lightning arrester



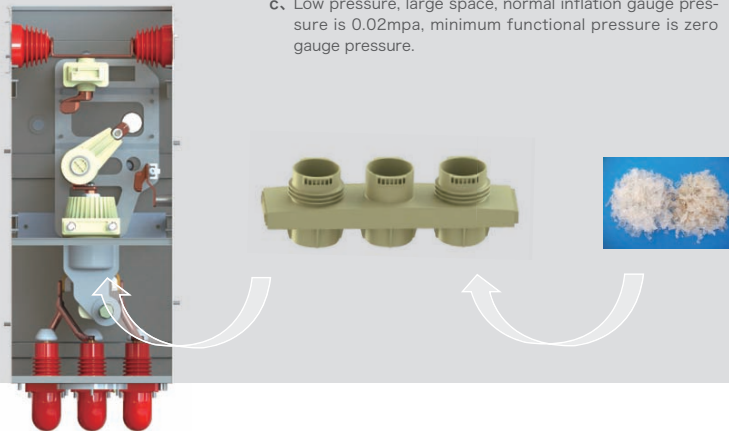
## 核心元器件技术简介 Technical Introduction of Core Unit



### 主开关设计 Design of Main Switch

- a、简洁的一次回路设计，均匀的电场分布结构、无需较多的复合绝缘、具有宽敞的气箱空间，满足良好的散热对流
- b、使用机械强度高、耐热性能优良的可回收再利用的环保热塑性材料，通过一次注射成型的三相整体真空灭弧室骨架替代环氧浇筑真空灭弧室骨架，具有结构简单、场强均匀、绝缘性好、生产效率高、少调整、易装配等诸多优点
- c、低压力、大空间，正常充气表压力为 0.02MPa，最低功能压力为零表压

- a. Simple primary loop design, uniform electric field distribution structure, no need for more composite insulation, with a spacious air box space, to meet the requirements of good heat dissipation convection.
- b. Use recyclable and reusable environmental thermoplastic material with high mechanical strength and good heat-resistance. Replace epoxy casting vacuum interrupter skeleton with one-injection molding three-phase integral vacuum interrupter frame. The design is featuring simple structure, uniform electric field strength, outstanding insulation properties, high production efficiency, less adjustment, easy assembly and many other advantages.
- c. Low pressure, large space, normal inflation gauge pressure is 0.02mpa, minimum functional pressure is zero gauge pressure.

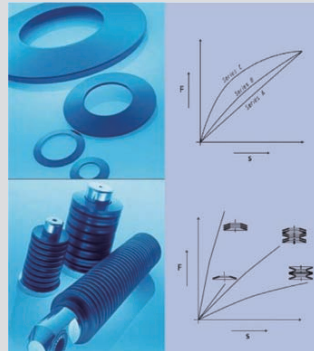
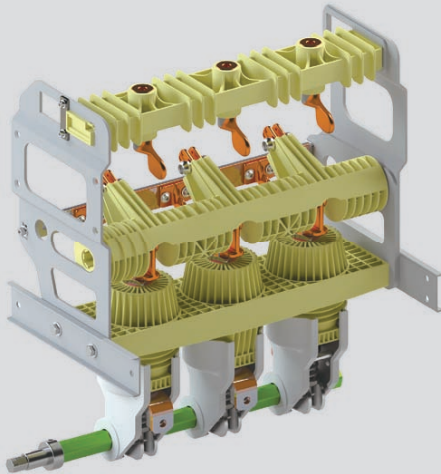




## 隔离开关设计 Design of Disconnecting Switch

- a、隔离开关采用三工位设计，从理论上彻底避免误操作的发生
- b、采用有利于接地关合的触头设计，接地关合速度 $\geq 4.2\text{m/s}$
- c、高性能的德国慕贝尔碟簧，保证触头压力的稳定性
- d、主轴驱动的旋转隔离，传动间隙小，保证可靠的对地、隔离断口距离

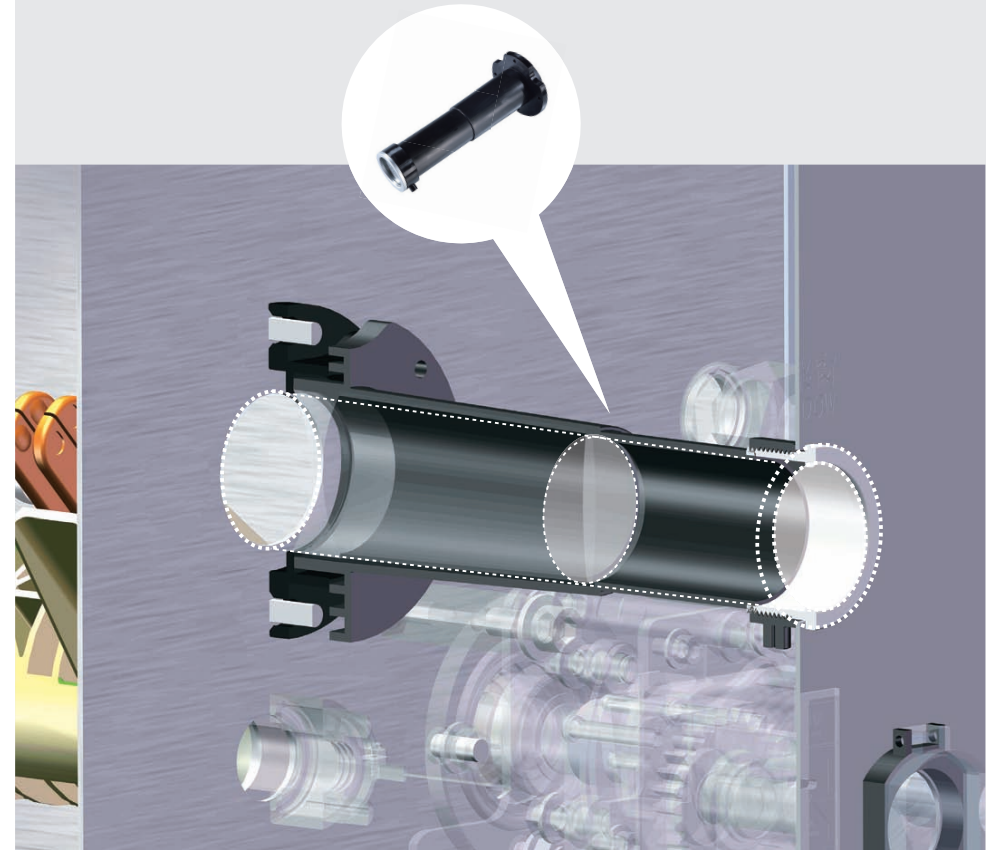
- a、The isolation switch adopts three-station design, which theoretically completely avoids the occurrence of misoperation.
- b、Using the contact design which is advantageous to the grounding connection, so that the grounding closing speed is  $\geq 4.2\text{m/s}$ .
- c、High-performance disc spring from Mubea Germany guarantee the stability of contact pressure.
- d、The transmission gap of spindle driven rotation isolation is small, which ensures reliable ground distance and isolating distance.



## 观察窗设计 Design of Inspection Window

- a、接地观察窗采用光学成像原理，用较小的观察窗来实现较大的观察范围
- b、接地观察窗采用自带光源设计，观察方便、清晰
- c、照明光源采用 LED 灯设计，可靠保证了照明灯的设计寿命

- a、The ground observation window adopts the principle of optical imaging, and the larger observation range is realized by using the smaller observation window.
- b、The ground observation window is designed with its own light source for easy and clear observation.
- c、The lighting source adopts LED lamp design, which ensures the design life of the lamp.

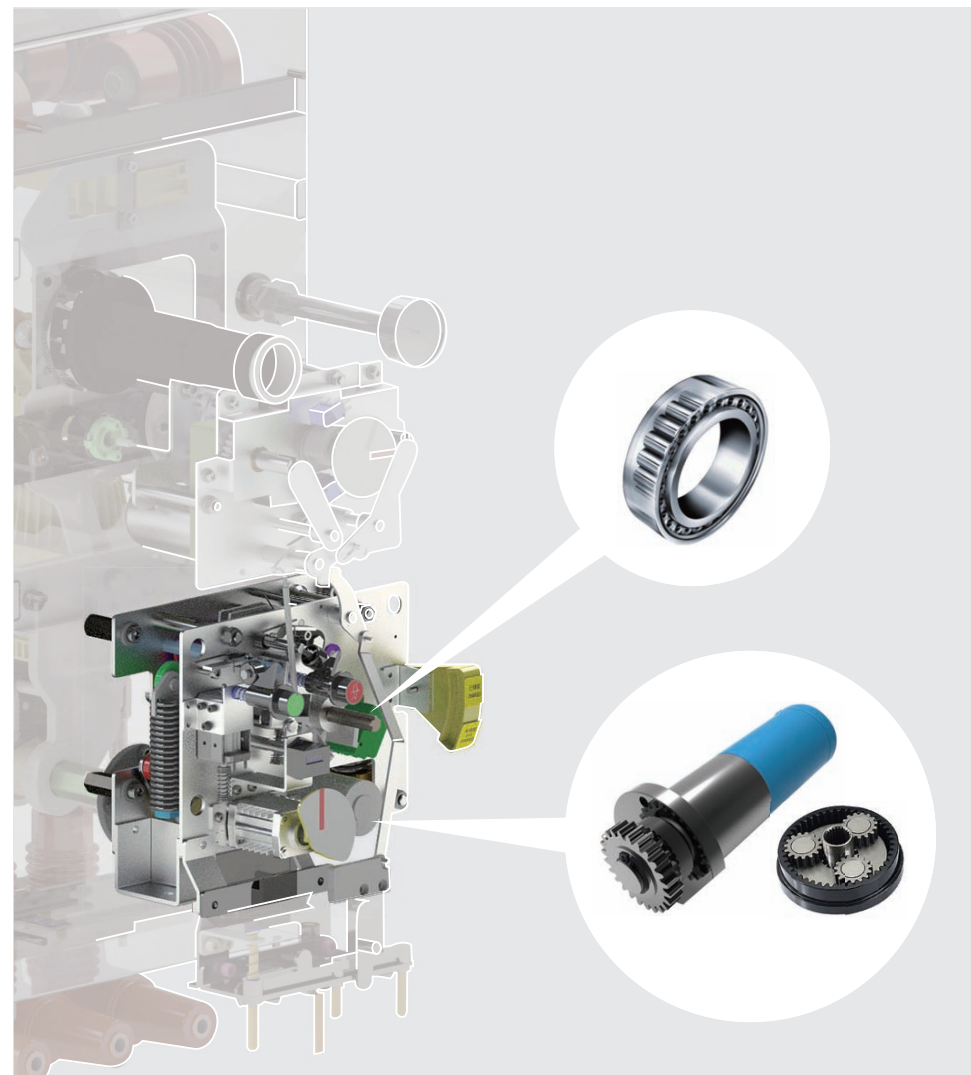
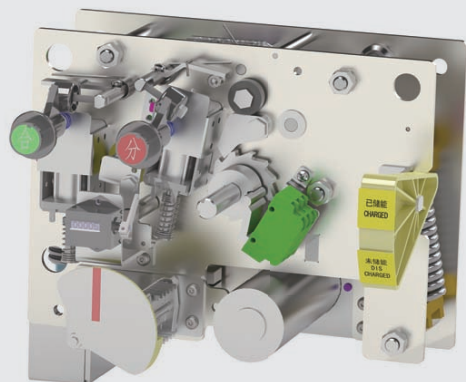




## 主开关机构设计 Design of Main Switch Mechanism

- a、四连杆机构传动设计，具有重合闸功能
- b、行星减速直流永磁电动机，体积较小、工作稳定，有着十分惊人的传动效率，能效损失约 3% 左右
- c、主开关机构的电动机、辅助开关、脱扣器、行程开关、是随时可更换的
- d、双弹簧精密传动设计，具有重合闸功能
- e、所有的传动零件采用优质钢和淬火钢
- f、核心传动采用滚针轴承设计，抗冲击能力强、载荷大、摩擦阻力小

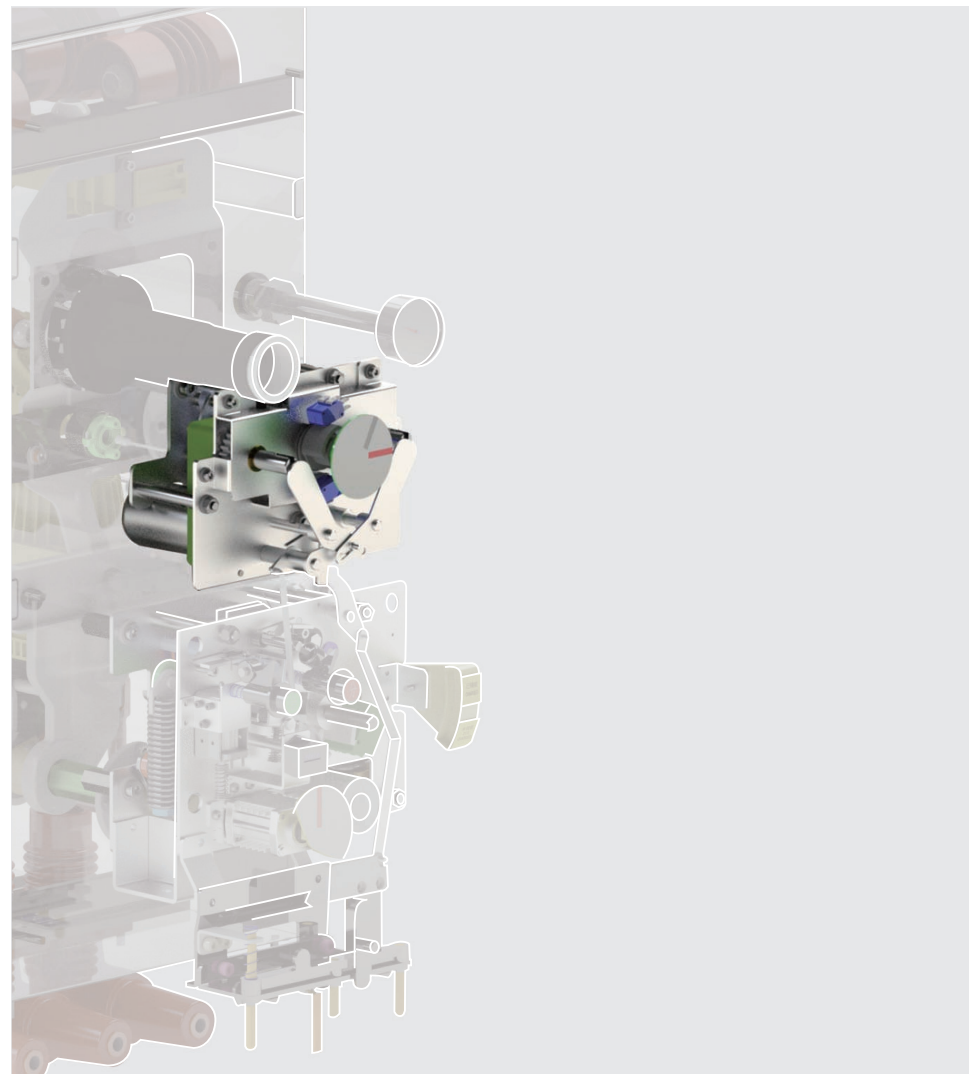
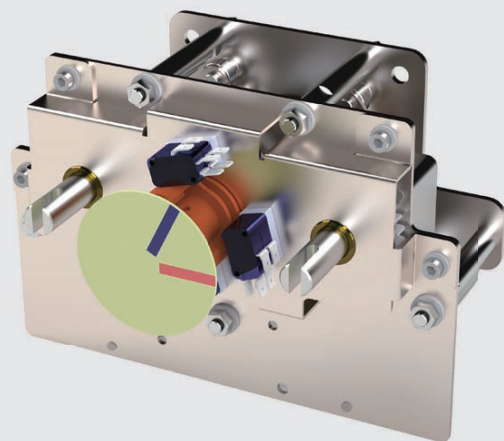
- a、Four-bar linkage transmission design, with reclosing function.
- b、The planet-decelerated DC permanent magnet motor is small in size, stable in operation, and has an amazing transmission efficiency, with energy efficiency loss of about 3%.
- c、The motor, auxiliary switch, release and travel switch of the main switch mechanism can be replaced at any time.
- d、Double spring precision transmission design, with reclosing function.
- e、All transmission parts shall be made of high quality steel and hardened steel.
- f、The core transmission adopts needle roller bearing design, with strong impact resistance, large load and small friction resistance.





## 隔离开关机构设计 Design of Disconnecting Switch Mechanism

- a、隔离机构采用扭簧正反转储能方式实现三工位设计
  - b、隔离位置的刚性限位设计，阻止机构反弹，有效防止操作瞬间断口绝缘击穿
  - c、可实现隔离、接地双电动方案，模块化设计
  - d、隔离机构“五防”连锁刚性连接，可靠防止误操作
- a、The isolation mechanism adopts the torsional spring positive and negative dump energy mode to realize the three-station design.
  - b、The rigid bidirectional limit design at the isolation position prevents the mechanism from bouncing and effectively prevents the breakdown of the broken insulation at the moment of operation.
  - c、Dual-electric scheme of isolation and grounding can be realized, and modular design can be achieved.
  - d、Five-anti-interlocking rigid connection of the isolation mechanism can reliably prevent misoperation.

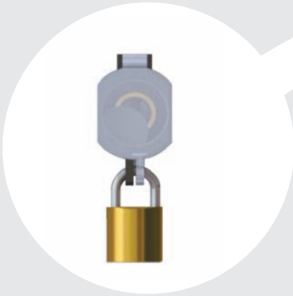




## 操作面板设计 Design of Operation Panel

- a、模拟母线清晰明了
- b、隔离开关和接地开关分别采用两个独立的操作孔
- c、操作孔配有防尘盖，满足 IP4X，可增加挂锁
- d、主开关可加装机械程序锁，实现多回路送电的安全操作程序
- e、接地开关可加装“电磁闭锁装置”以防止带电误合接地开关

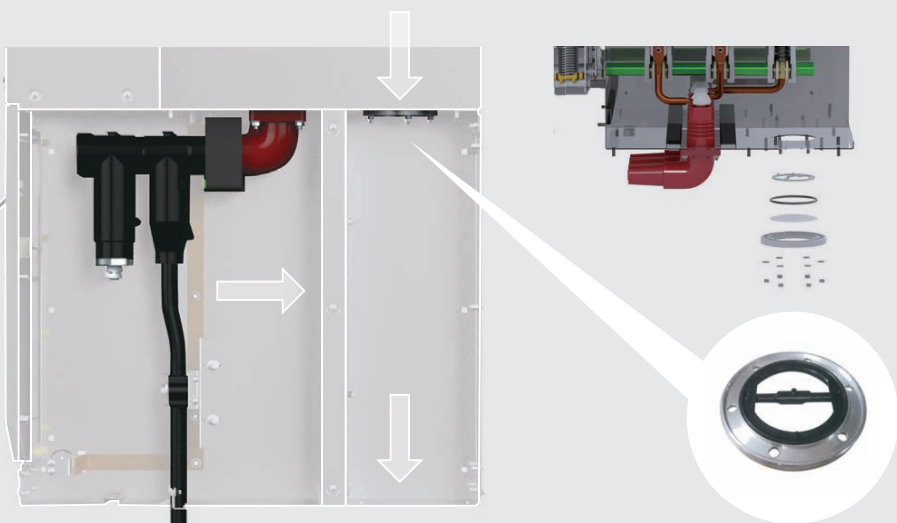
- a、The simulated bus bar is clear.
- b、Isolation switch and ground switch use two independent operation holes respectively.
- c、The operation hole is equipped with dustproof cover, which can meet IP4X and add padlock.
- d、The main switch can be equipped with mechanical program lock to realize the safe operation procedure of multi-loop power transmission.
- e、The grounding switch can be equipped with "electromagnetic blocking device" to prevent the grounding switch from mistakenly closing on electrification.



## 泄压设计 Design of Pressure Relief

- a、泄压采用专用的泄压装置
- b、电缆室可向后泄压，柜体后端无需增加泄压通道

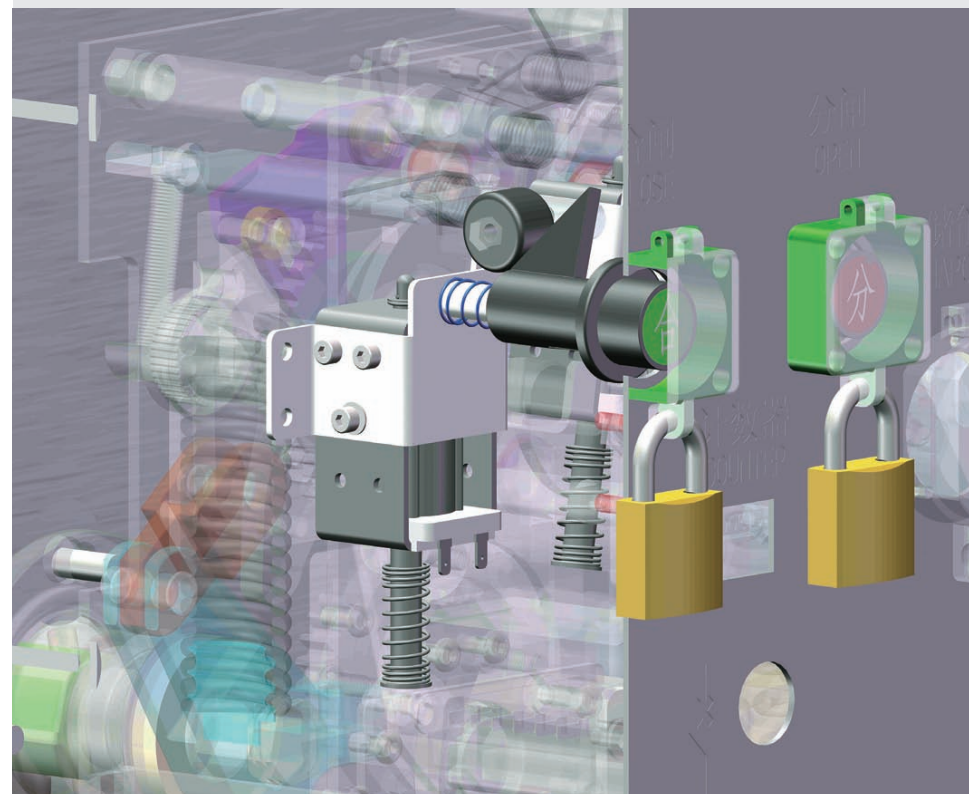
- a、Special pressure relief device is used for pressure relief.
- b、The cable compartment can relieve pressure backward. There is no need to add relief channel at the rear end of the cabinet.



## 操作按钮设计 Design of Operation Button

- a、主开关手动操作采用按钮设计，操作简单方便
- b、按钮设计有防误合操作盖，并可挂锁

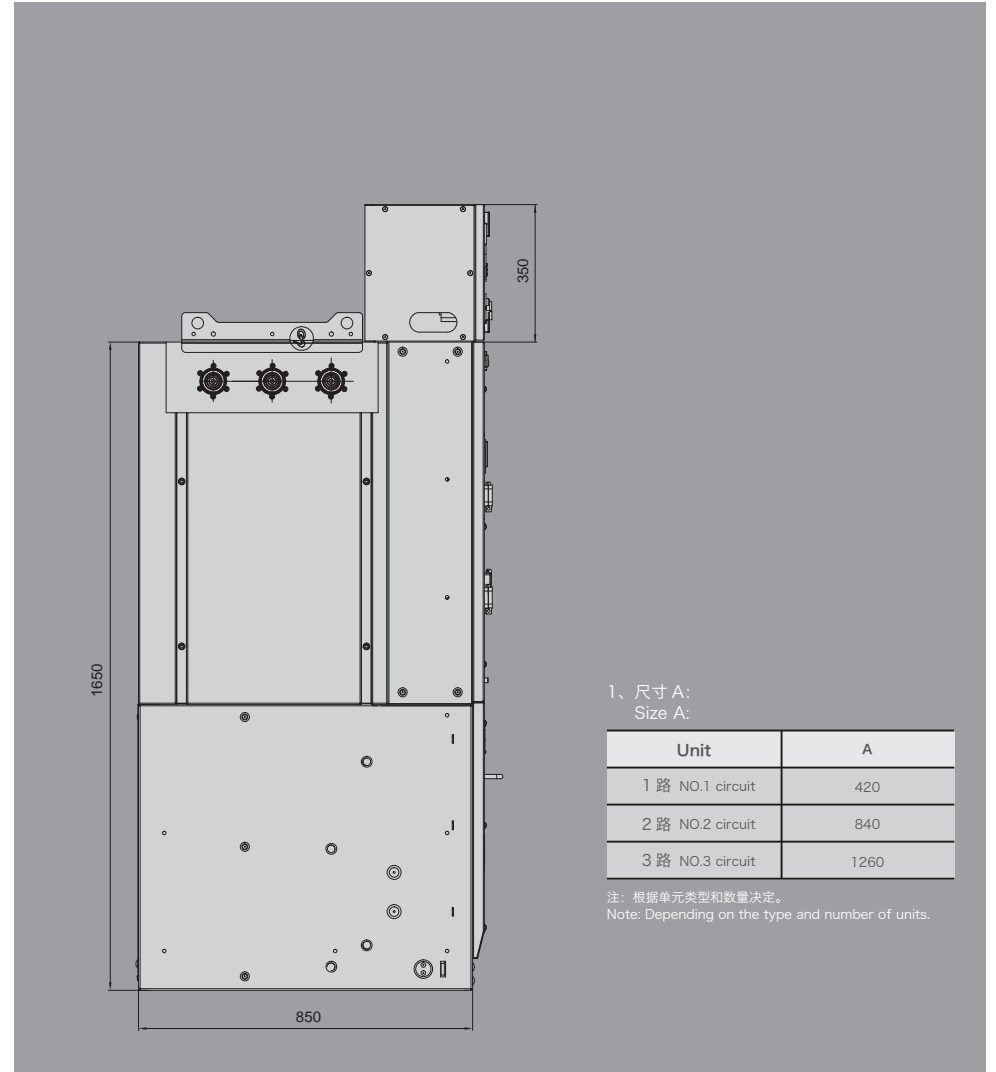
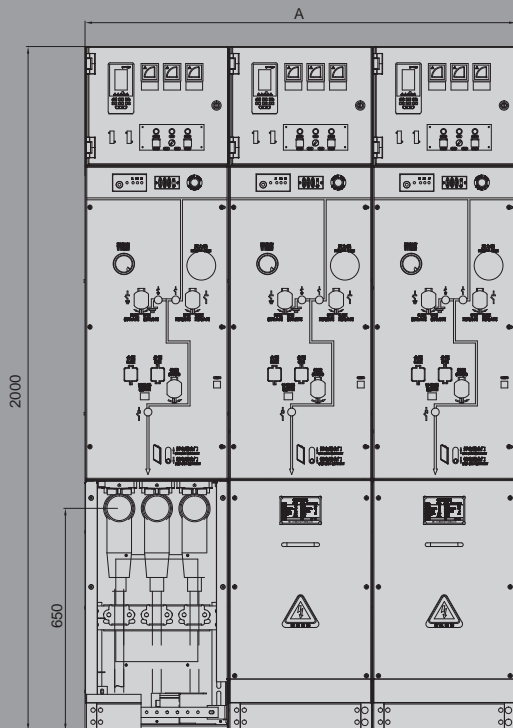
- a、Main switch manual operation adopts button design, simple and convenient operation.
- b、The button is designed with a mis-closing operation cover and can be padlocked.



## 外形及相关尺寸 Appearance and Dimensions



EGS-12-CVV 外形尺寸  
EGS-12-CVV dimensions

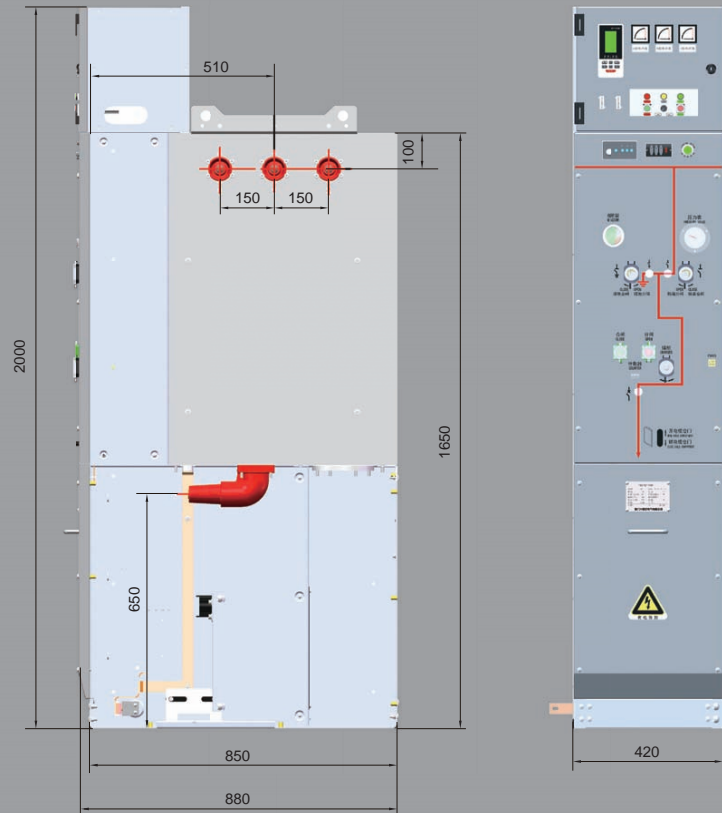


1、尺寸 A:  
Size A:

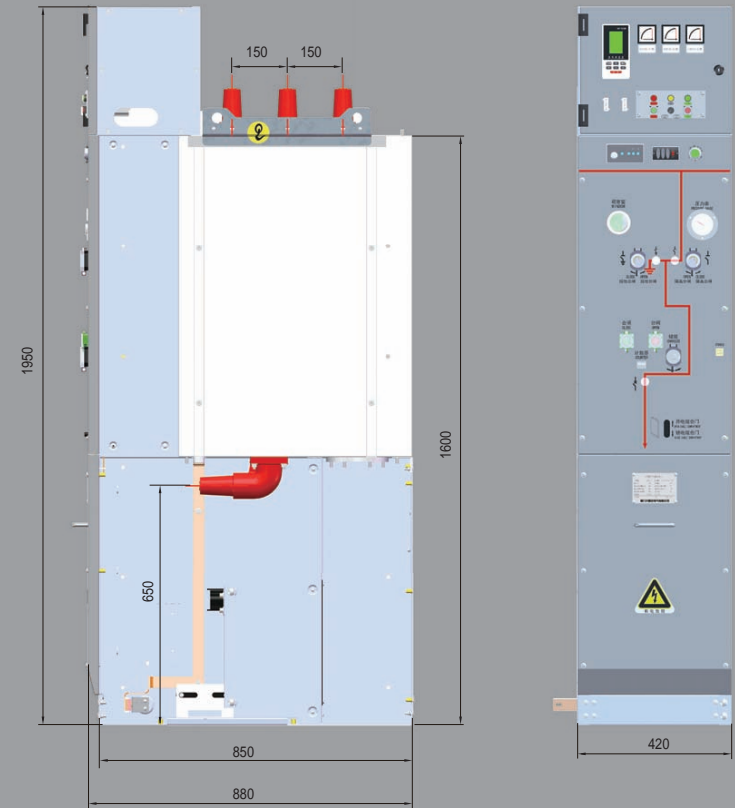
Unit	A
1 路 NO.1 circuit	420
2 路 NO.2 circuit	840
3 路 NO.3 circuit	1260

注：根据单元类型和数量决定。  
Note: Depending on the type and number of units.

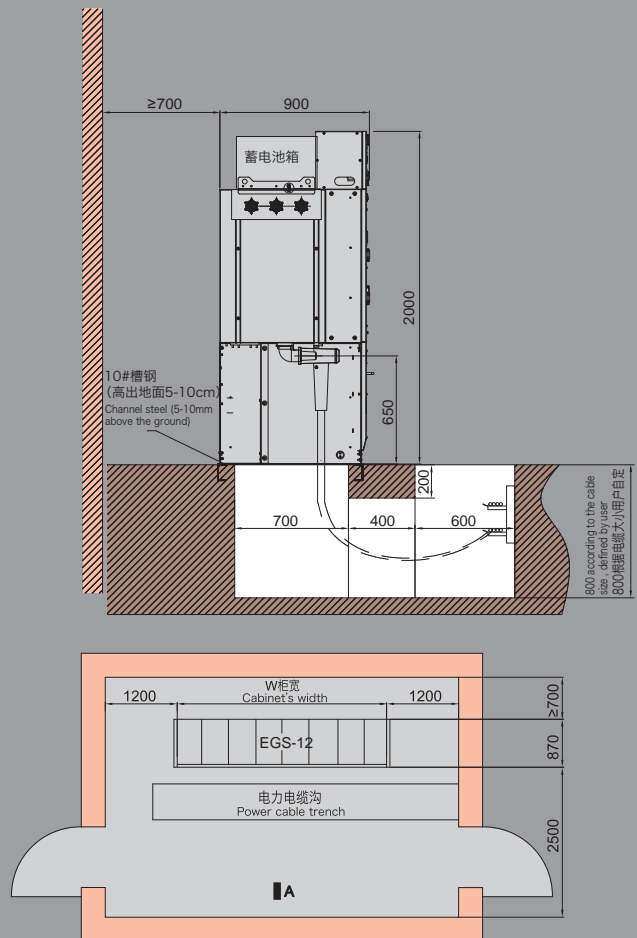
EGS-12-V/C (侧扩方案) 外形尺寸  
EGS-12-V/C (side expansion scheme) dimensions



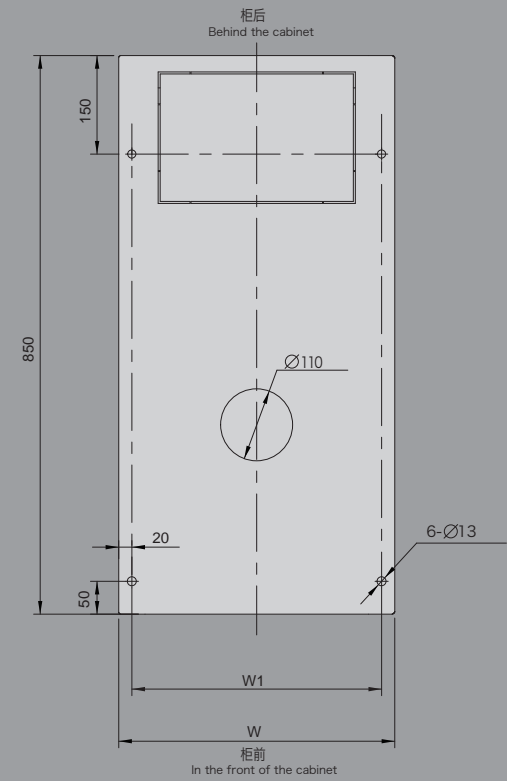
EGS-12-V/C (top expansion scheme) dimensions



安装相关尺寸  
Installation dimension



底座安装孔位相关尺寸  
Base mounting hole size



Unit	W1	W
1路 NO.1 circuit	380	420
2路 NO.2 circuit	800	840
3路 NO.3 circuit	1220	1260