



## ZF27B-420 ( L ) /Y5000-63型GIS ZF27B-420 ( L ) /Y5000-63 GIS

平高GIS具有30多年设计、制造、销售历史，产品遍布全世界。420kV GIS为三相分箱型产品。该产品该产品具有满足IEC标准的全套型式试验报告。机械寿命M2级，容性电流开合C2级，性能稳定可靠。

我公司研制的420kV GIS产品为高度集成的紧凑型气体绝缘金属封闭开关设备。可有效的解决占地问题和空间问题，在大中城市优势尤为显著。

**1.间隔布置方式灵活，安装方便：**系统各元件独立模块可按照需求进行设计、扩建、改造。GIS由多个标准模块组成，工厂内进行高质量生产，现场便于安装调试维护。

**2.性能优异：**平高GIS技术水平领先，断路器采用单断口配紧凑型液压碟簧操作机构。

**3.安全可靠：**隔离开关、维修/快速接地开关结构简单，传动安全可靠，最大的保证了操作的安全性。

**4.可集成智能化系统：**可集成智能监测设备，对各元件机械特性、SF<sub>6</sub>气体状态、绝缘状态进行实时监测、评估及故障预警。

Pinggao Group Co., Ltd.(PG) have more than 30 years of experience in design, engineering, manufacturing and servicing of SF<sub>6</sub> gas-insulated metal-enclosed switchgear (GIS). In applications all over the world. 420kV GIS is a three-phase in different enclosure product with stable and reliable performance, capacitive current switching of C2 class and mechanical endurance of M2 class.

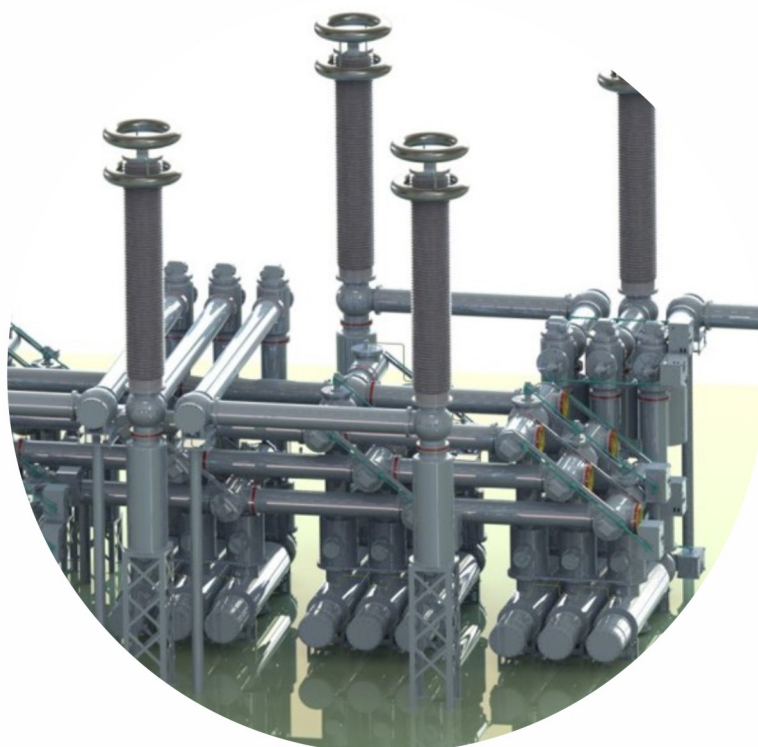
PG's 420kV GIS is designed with more compact construction and fewer components comparing with the previous system of its kind. It can save more space, which shows especially in cities and metropolitan areas its advantages.

**1.Flexibility and efficiency:** The system's modular architecture permits individual solutions that can be adapted to changing needs at any time. The GIS comprises as many standardized modules as possible, resulting in high quality production at factory easily installation, commissioning and maintenance.

**2.Excellent performance:** Leading technique. Circuit breaker is designed with one interrupting chamber and compact hydraulic - spring mechanism.

**3.Safe and reliable:** The disconnecter, maintenance/ high-speed earthing switch are designed with simple construction to guarantee maximum operational safety.

**4.Integrated intelligent system:** It can integrate intelligent monitoring equipment to conduct real-time monitoring, evaluation and fault warning for mechanical characteristics, SF<sub>6</sub> gas state and insulation state of each element.



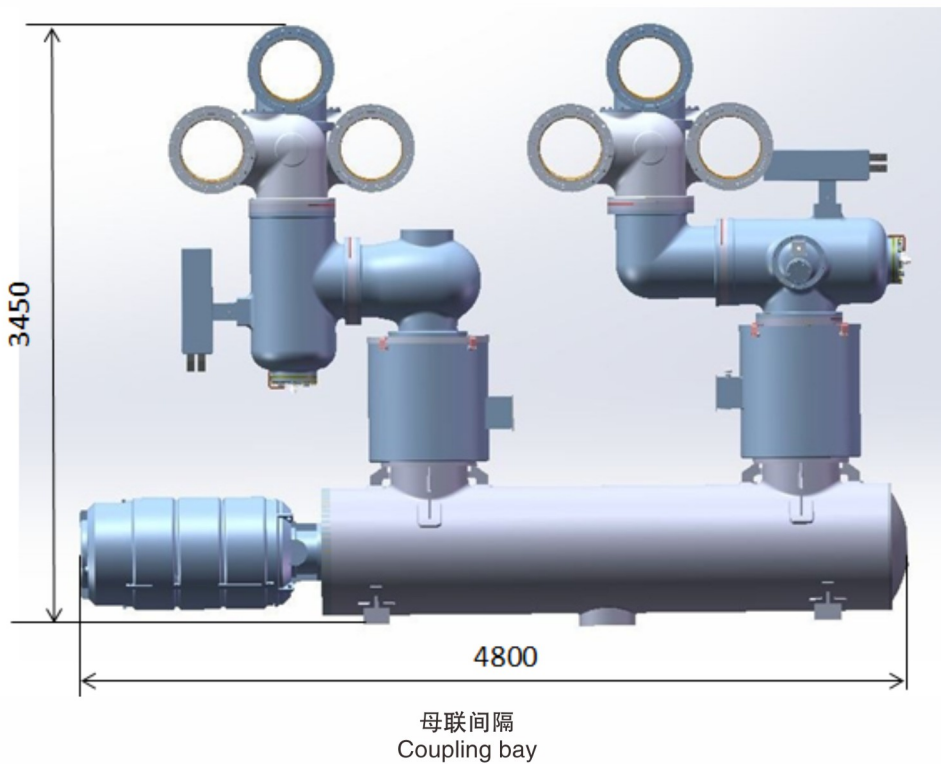
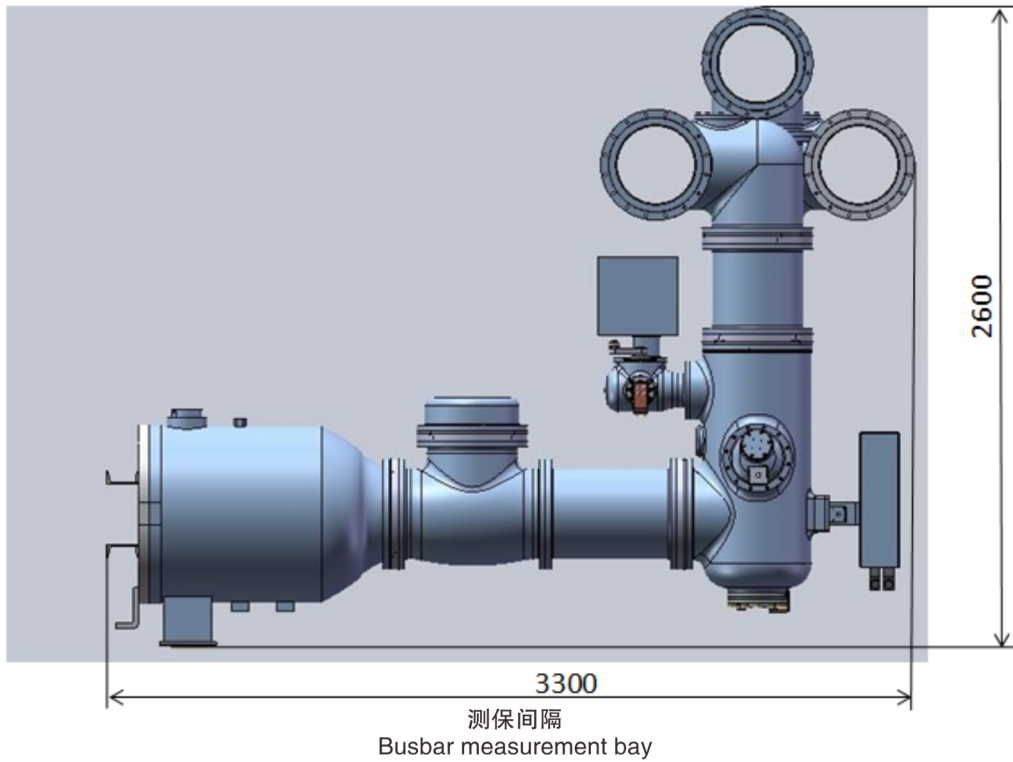
### ★ 环境条件

- 使用地点：户内/户外
- 环境温度：-25℃~+40℃
- 海拔高度：≤1000m  
( >1000m为特殊订货 )
- 污秽等级：III或IV

### ★ Service Conditions

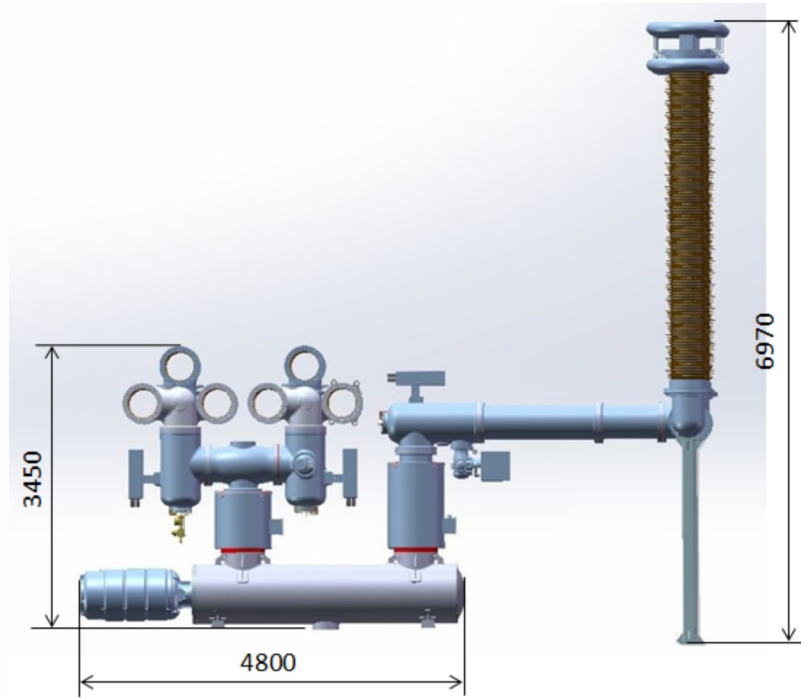
- Location: indoor / outdoor
- Temperature range: -25 °C~+40 °C
- Altitude: ≤1000m  
( >1000m is special order )
- SPS Class ( IEC/TS 60815 series ) : III or IV

ZF27B-420 ( L ) /Y5000-63型GIS典型间隔布置  
ZF27B-420 ( L ) /Y5000-63 GIS Typical bay arrangement

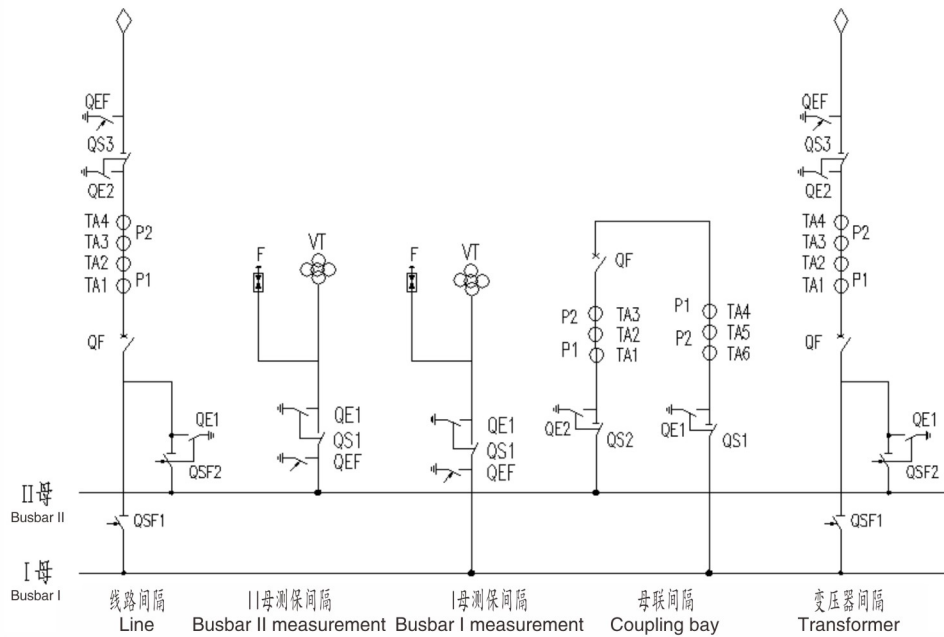




## ZF27B-420 ( L ) /Y5000-63型GIS典型间隔布置 ZF27B-420 ( L ) /Y5000-63 GIS Typical bay arrangement



套管进出线间隔  
Typical bay for line/transformer with bushing connection



主接线图\*  
Single Line Diagram\*

\*间隔配置供参考，可根据实际需要进行模块化增减。

\*Above configuration is for reference, and can be increased or decreased modularly according to actual needs.

## 主要技术参数 / Main Technical Parameters

序号 No.	项目 Item	单位 Unit	技术参数 Technical Data
1	额定电压 Rated voltage	kV	420
2	额定频率 Rated frequency	Hz	50
3	额定电流 Rated current	A	5000
4	额定短时耐受电流 ( 有效值 ) Rated short-time withstand current ( r.m.s )	kA	63
5	额定短路持续时间 Rated short circuit duration	s	3
6	额定峰值耐受电流 ( 峰值 ) Rated peak withstand current ( peak )	kA	171
7	额定短时工频耐受电压 ( 1min有效值 ) 1min rated power frequency withstand voltage ( r.m.s )	相间、相对地 Between poles and to earth	650
		断口间 Across the open contacts	815
8	额定雷电冲击耐受电压 ( 1.2/50us峰值 ) Rated lightning impulse withstand voltage ( 1.2/50us peak )	相间、相对地 Between poles and to earth	1425
		断口间 Across the open contacts	1425 ( +240 )
9	额定短时工频耐受电压 ( 1min有效值 ) 1min rated power frequency withstand voltage ( r.m.s )	相间、相对地 Between poles and to earth	1050
		断口间 Across the open contacts	900 ( +345 )
10	SF <sub>6</sub> 气体额定压力 ( 表压 20℃ ) SF <sub>6</sub> gas rated pressure ( gauge pressure 20 ℃ )	相间、相对地 Between poles and to earth	0.6
		断口间 Across the open contacts	0.5
11	SF <sub>6</sub> 气体年漏气率 SF <sub>6</sub> gas annual leakage rate		<0.1%
12	运行温度 Operating temperature	℃	-25~55
13	断路器容性电流开合试验 ( 级别 ) Capacitive current switching test of circuit breaker ( level )		C2 ( LC/CC )
14	断路器机械寿命 Mechanical endurance of circuit breaker	次 Times	10000
15	隔离开关母线转换电流 ( 转换电压 ) Bus-transfer current ( transfer voltage ) switching capability of disconnector	A	1600 ( 400V )
16	隔离开关开、合容性电流 Capacitive current switching capability of disconnector	A	2
17	隔离开关、接地开关、快速接地开关机械寿命 Mechanical endurance of disconnector, earthing switch and fast earthing switch	次 Times	10000

### 平高集团有限公司

地址：河南省平顶山市南环东路22号

销售热线：86-371-55008935

售后电话：86-375-2206608

网址：<http://www.pinggaogroup.com>

### PingGao Group Co.,Ltd

Address : No.22.Nanhuandong Road,Pingdingshan City,  
Henan Province,China

Sales Hotline : 86-371-55008935

After sales Telephone: 86-375-2206608

HTTP: [www.pinggaogroup.com](http://www.pinggaogroup.com)