

## ZF12D-145 ( L ) 型GIS ZF12D-145 ( L ) GIS

145kV GIS为三相共箱型产品，断路器立式布置，采用双动自能式灭弧室，隔离接地开关三工位集成设计，汇控柜布置于母线三工位上方，各元件独立模块化设计，间隔布置方式灵活，便于根据工程需求调整布置方式，现场安装方便。该产品已取得STL国际短路试验联盟机构ASTA出具的全套符合IEC标准的型式试验报告

- 1.结构紧凑：**产品结构紧凑，占地面积小，可满足间隔间距0.8m布置要求。
- 2.性能稳定可靠：**断路器采用双动自能式灭弧室，开断能力强，操作功低，性能稳定可靠，电寿命E2级，容性电流开合C2级，机械寿命M2级。
- 3.可配置智能驱动机构：**可选配智能驱动机构，具备状态感知功能，精准控制分合闸过程。
- 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。

145kV GIS is a well proven modular product with three-phase enclosure, and the circuit breaker is arranged vertically. It adopts double acting self-energy arc extinguishing chamber, three-position integrated design of disconnecter and earthing switch, and the local control cubicle is onto the GIS, usually above the busbars. Each element of the equipment is designed as an independent modular, and the components arrangement is flexible, which is convenient to adjust the arrangement according to the project requirements, and the field installation is convenient. The product has been certified by international short circuit test alliance ( STL ) with a full set of type test reports according to IEC standards.

- 1.Compact structure:** The compact structure of the product can significantly save the space, the minimum distance between bays is 0.8m.
- 2.Reliable performance:** The circuit breaker adopts double-acting self-energy arc extinguishing chamber with strong breaking capacity, low operating power, stable and reliable performance, thus the circuit breaker class is E2-C2-M2.
- 3.Configurable intelligent drive mechanism:** Optional intelligent drive mechanism, precise and controllable opening and closing process, with state sensing function.
- 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.



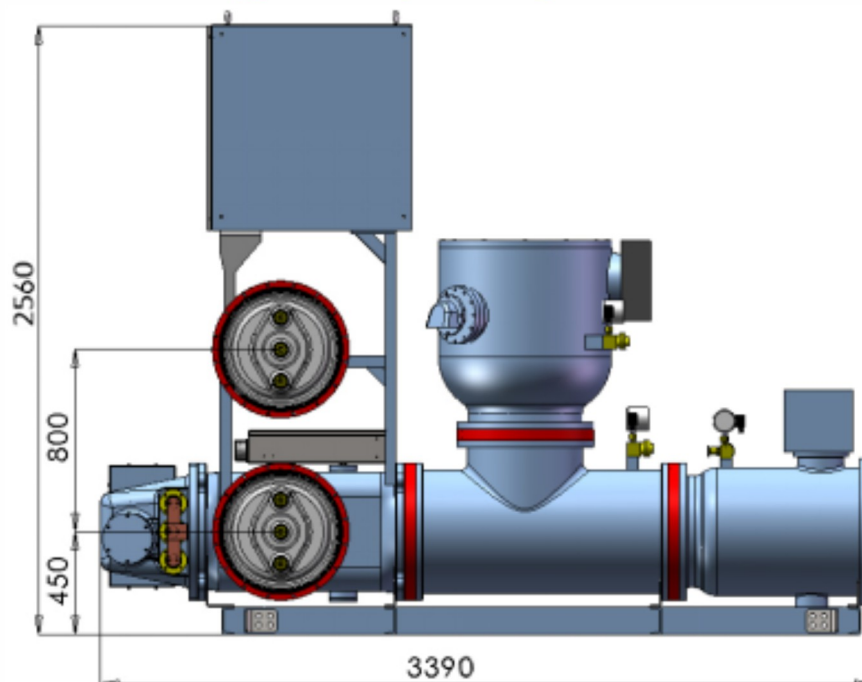
### ★ 环境条件

- 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

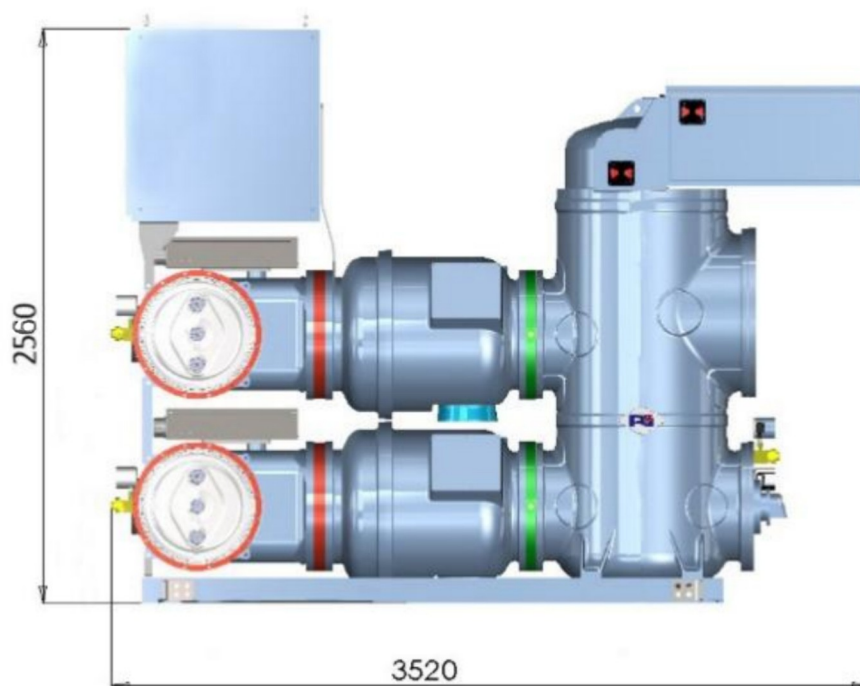
### ★ Service Conditions

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

ZF12D-145 ( L ) 型GIS典型间隔布置  
ZF12D-145 ( L ) GIS Typical bay arrangement



测保间隔  
Busbar measurement bay



母联间隔  
Coupling bay

主接线图\*  
Single Line Diagram\*

\*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	145
2	额定频率 Rated frequency		Hz	50/60
3	额定电流 Rated current		A	2500/3150
4	额定短时工频耐受电压 Rated short-duration power-frequency withstand voltage ( 1 min rms )	相对地 Phase to earth	kV rms	275
		断口间 Across the isolating distance		315
5	额定雷电冲击耐受电压 ( 峰值 ) Rated lightning impulse withstand voltage ( peak value )	相对地 Phase to earth	kV	650
		断口间 Across the isolating distance		750
6	额定短时耐受电流/持续时间 Rated short-circuit breaking current/duration time		kA /s	40/3
7	额定峰值耐受电流 Rated peak withstand current		kA	104
8	断路器 Circuit Breaker	首开极系数 First-pole-to-clear factor		1.5
		操作顺序 Rated operating sequence	/	O-0.3s-CO-3min-CO
		断路器等级 Class of circuit breaker	/	E2-C2-M2
		额定线路充电电流 Rated line-charging breaking current	A	50
		额定电缆充电电流 Rated cable-charging breaking current	A	160
9	Disconnecter/Earthing switch	机械寿命 Mechanical endurance		M2 ( 10000 /times )
		母线转换电流 Bus-transfer current switching capability		100V/1600A, 100times
		接地开关等级 Class of Earthing switch		E2-M2-B
		静电感应 Electrostatically induced current/voltage		2A/6kV, 10 times
		电磁感应 Electromagnetically induced current/voltage		80A/2kV, 10times
		短路关合 Short-circuit making current		Peak value 104kA, 2times
10	SF <sub>6</sub> 额定压力 ( 20℃表压 ) SF <sub>6</sub> gas rated pressure ( abs.20℃ )	断路器气室 Circuit Breaker compartment	MPa	0.60
		其它气室 Other compartments		0.50
11	GIS年漏气率 Annual gas leakage rate			<0.1%

### 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