

ZF11C-252 (L) /T4000-50型GIS

ZF11C-252 (L) /T4000-50 GIS

ZF11C-252(L)/T4000-50型GIS系户内/户外三相交流50/60Hz高压输变电组合电器设备，用于额定电压为252kV的电力系统中，对输电线路进行控制、测量、保护与切换。

- 1.一次设备独立模块化设计，可满足典型设计方案中的各种主接线要求。适合发电厂、变电站的新建、扩建或改造工程建设。
- 2.紧凑型、轻量化设计，减少空间使用和环境影响，安装周期短。
- 3.断路器采用自能式双动灭弧室，配弹簧机构，具有低操作功、少维护、无油化、可靠性高，机械寿命10000次。
- 4.集成式三工位隔离-接地开关，结构紧凑、布局合理，可靠性高。
- 5.可实现多种进出线方式：复合绝缘套管、瓷套管、电缆终端、变压器直连。
- 6.可实现智慧型在线监测，在线监测数据包括气体状态、微水、带电显示等。
- 7.漏气率低，GIS年漏气率<0.1%，补气间隙>10年。

ZF11C-252 (L) /T4000-50 GIS is a three-phase AC 50 / 60Hz high-voltage power transmission and transformation gas insulated switchgear, which is used to control, measure, protect and switch the transmission line in the power system with the rated voltage of 252kV.

- 1.Independent modular design of primary equipment can meet various applications. It is suitable for new construction, expansion or reconstruction of power plants and substations.
- 2.Compact and light-weight design. Save space/room requirement, have lower environment impact and shorter installation time.
- 3.The circuit breaker adopts self-energizing double-acting arc extinguishing chamber, equipped with spring mechanism, with low operating power, less maintenance, oil-free, high reliability and 10000 times of mechanical life.
- 4.Integrated three-position disconnector and earthing switch, compact structure, reasonable layout and high reliability.
- 5.Termination module of incoming and outgoing lines can be: composite bushing, porcelain bushing, cable terminal, and endurance connection of transformer.
- 6.Intelligent on-line monitoring can be realized. The on-line monitoring data include gas state, gas moisture content, voltage detection, etc.
- 7.The gas leakage rate is low, and the annual gas leakage rate is less than 0.1%, replenishment interval is more than 10 years.



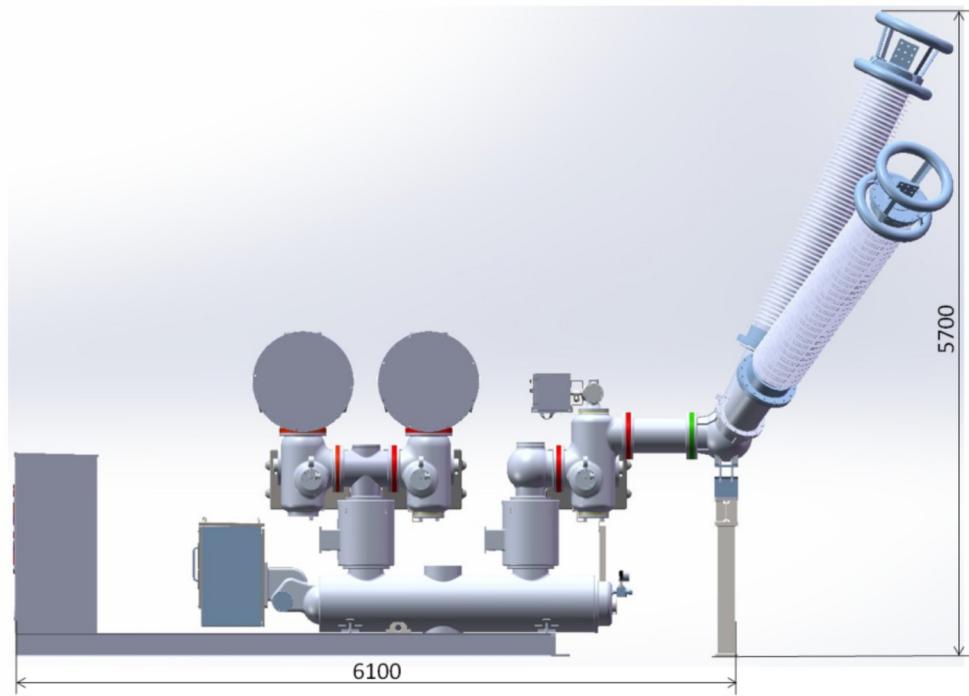
★ 环境条件

- 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

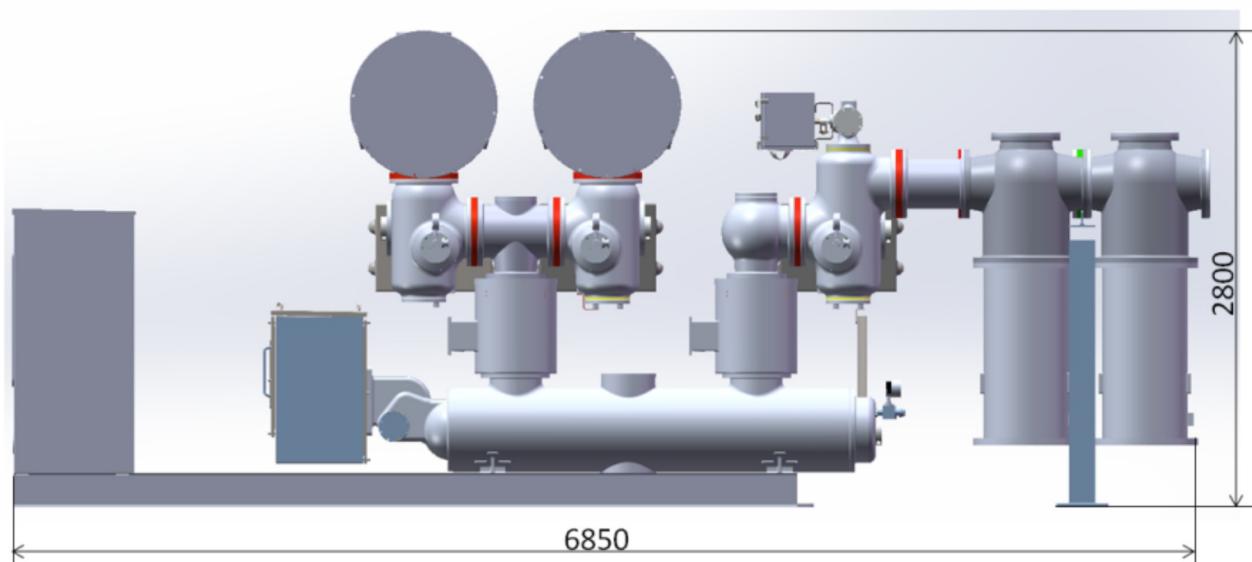
★ Service Conditions

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

ZF11C-252 (L) 型GIS典型布局
ZF11C-252 (L) GIS Typical bay arrangement



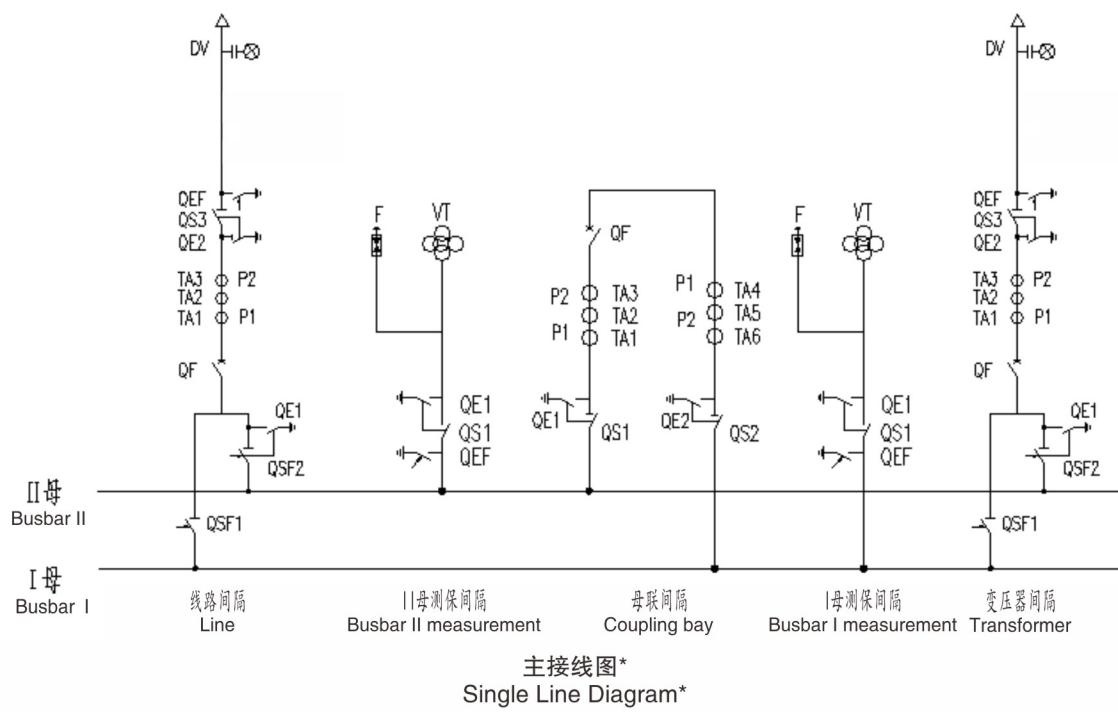
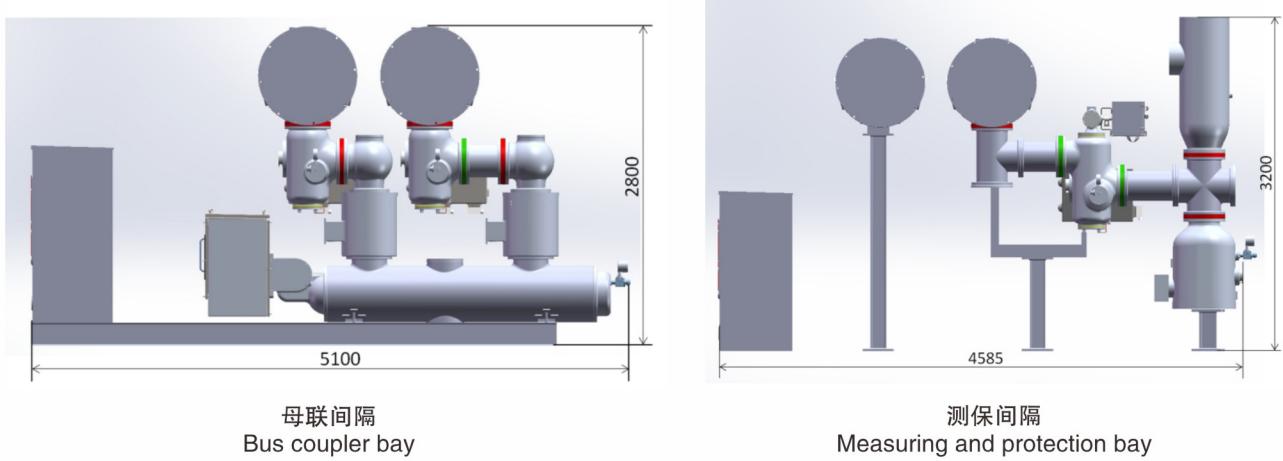
进出线间隔（套管）
Typical bay for line /transformer with bushing connection



典型电缆线路/变压器间隔
Typical bay for line/transformer with cable connection

ZF11C-252 (L) 型GIS典型布局

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*间隔配置供参考，可根据实际需要进行模块化增减。

*汇控柜可以根据现场实际，固定在断路器侧上方。

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

*LCP can mount on circuit breaker according to space limit.

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	252
2	额定频率 Rated frequency	Hz	50/60
3	额定电流 Rated current	A	4000
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	460
		断口间 Across the isolating distance	kV rms 460 (+146)
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	1050
		断口间 Across the isolating distance	kV 1050 (+206)
6	额定短时耐受电流/持续时间 Rated short-circuit breaking current/duration time	kA /s	50/3
7	额定峰值耐受电流 Rated peak withstand current	kA	130
8	断路器 Circuit Breaker	首开极系数 First-pole-to-clear factor	1.3
		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 125
		额定电缆充电电流 Rated cable-charging breaking current	A 250
9	Disconnecter/Earthing switch	机械寿命 Mechanical endurance	M2 (10000 /times)
		母线转换电流 Bus-transfer current switching capability	300V/1600A, 100times
		接地开关等级 Class of Earthing switch	E2-M2-B
		静电感应 Electrostatically induced current/voltage	15A/25kV, 10 times
		电磁感应 Electromagnetically induced current/voltage	240A/15kV, 10times
		短路关合 Short-circuit making current	Peak value 125 kA, 2times
10	SF ₆ 额定压力 (20℃表压) SF ₆ gas rated pressure (abs.20℃)	断路器气室 Circuit Breaker compartment	0.60
		其它气室 Other compartments	MPa 0.50
11	GIS年漏气率 Annual gas leakage rate		<0.1%
12	电流互感器 Current transformer		内置/外置 Internal / external

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.Nanhuan dong Road,Pingdingshan City,
 Henan Province,China
 Sales Hotline : 86-371-55008935
 After sales Telephone: 86-375-2206608
 HTTP: www.pinggaogroup.com