

高压式发电机组 High voltage generator set

高压发电机组是以国内外优质名牌柴油机为动力,按照国家标准《GB2820工频柴油发电机组通用技术条件》的规定,并参照(IEC34-1》国际电工委员会旋转电机标准,选配国内外优质发电机所生产的高压系列发电机组。

The high-voltage generator set is powered by high-quality domestic and foreign brand diesel engines. It is manufactured in accordance with the national standard GB2820 General Technical Conditions for Power Frequency Diesel Generator Sets and with reference to the International Electrotechnical Commission rotating motor standard (IEC34-1).



特点 Features	低压机组 Low pressure unit	高压机组 High pressure unit
容量 capacity	可多台机组并联运行 Multiple units can be operated in parallel	可多台机组并联运行, 机房可集中建设 Multiple units can be operated in parallel, and the machine room can be built in a centralized manner
输送距离 Conveying distance	可短距离输电 Short distance power transmission	可长距离输电 Long distance power transmission
损耗 loss	在输配电中线路损耗较大 In power transmission and distribution, line losses are large	在输配电中线路损耗较小, 不存在输送发热问题 The line loss in power transmission and distribution is small, and there is no problem of transmission heating.
成本 cost	设备初期投资较少, 维护成本较低, 低容量、短距离具有较大优势, 高容量、长距离使用时成本将远远高于高压机组 The initial investment of the equipment is small, the maintenance cost is low, low capacity and short distance have great advantages, and the cost will be much higher than that of high-pressure units when used in high capacity and long distance	设备初期投资较大, 维护成本较低, 对于大容量长距离输配电具有明显优势, 配套投资费用较低 The initial investment of the equipment is large, but the maintenance cost is low. It has obvious advantages for large-capacity and long-distance power transmission and distribution, and the supporting investment cost is low.
操作维护 Operation and maintenance	操作使用较为简单, 对操作使用人员要求较低 The operation is relatively simple, and the requirements for operators are relatively low.	操作使用较为复杂, 操作使用人员要求较高, 必须具有相应高压操作证才能操作 The operation is relatively complicated and the operator has high requirements. The operator must have a corresponding high-voltage operation certificate to operate.
配置 Configuration	配置较为简单 The configuration is relatively simple	配置较为复杂, 尤其在发电机及输出配电柜方面 The configuration is relatively complex, especially in terms of generators and output distribution cabinets
安全 Safety	安全性能较高, 技术较为成熟, 技术门槛较低 High safety performance, mature technology, and low technical threshold	安全性能较高, 技术较为成熟, 技术门槛较高 High safety performance, mature technology, and high technical threshold
发展趋势 Development Trend	小功率段保持传统市场, 大功率段有被高压系统替代的趋势 The low-power segment maintains the traditional market, while the high-power segment tends to be replaced by high-voltage systems.	采用高压系统为现世界趋势, 需求逐渐增大 The use of high-pressure systems is a global trend, and demand is gradually increasing.

产品特点 Features		
设备名称 Device Name	使用要求说明 Usage Requirements	备注 Remark
发动机 Engine	一般要求单台机组功率在1000KW以上, 康明斯、MTU等发动机 Generally, it is required that the power of a single unit should be above 1000KW, and engines of brands such as Cummins and MTU are preferred.	与低压机组无区别 No difference from low pressure unit
发电机 Dynamo	可长距离输电, 按不同电压等级选用, 可选用STAMFORD、康富等品牌发电机 Long distance power transmission, According to different voltage levels, you can choose generators from brands such as STAMFORD and Kangfu.	与低压机有较大区别 There is a big difference from the low pressure machine
连接方式 Connection	双轴承发电机联轴器连接, 工作可靠, 安全性更高 Double bearing generator coupling connection, reliable operation and higher safety	减震垫安装在底座下面 Shock-absorbing pads installed under the base
并机控制系统 Parallel control system	一般包括主控制器、同期装置等, 可选用COMAP主控制系统CUMMINS、CAT、MTU并机控制系统, 差动保护 Generally includes main controller, synchronization device, etc. COMAP main control system CUMMINS, CAT, MTU parallel control system, differential protection	与低压并机控制系统没明显区别, 增加差动保护 There is no obvious difference from the low-voltage parallel control system, with the addition of differential protection
高压开关柜 High voltage switchgear	一般并机输出开关采用轴出式电动真空断路器、综保系统、直流操作 Generally, the parallel output switch adopts shaft-type electric vacuum circuit breaker, comprehensive protection system, DC operation	高压发电机组分为柴油、重油两用, 具有调压精度高, 动态性能好, 电压波形畸变小、效率高, 结构紧凑, 维修方便工作可靠, 使用寿命长, 经济性好等特点 The high-voltage generator set is divided into diesel and heavy oil dual-purpose, with high voltage regulation accuracy, good dynamic performance, small voltage waveform distortion, high efficiency, compact structure, convenient maintenance, reliable operation, long service life, good economic performance, etc.
PT柜 PT Cabinet	将高电压转变为适合监测的低电压, 为系统中的操作机构、控制回路等提供稳定的电源, 确保设备正常工作 Transform the high voltage into a low voltage suitable for monitoring, provide a stable power source for the operating mechanisms, control circuits, etc. in the system, and ensure the normal operation of the equipment.	

