PGH2 应急配电板
Emergency switchboard

RF31柜型（自主研发）
RF31 type (self-developed)

8PT柜型（西门子授权）
8PT type (Siemens authorized)

概述
Overview

PGH2型应急配电板是本公司自主研发的配电产品，是在紧急情况下对重要的电气负载进行应急供电的设备。

PGH2型应急配电板适用于额定电压AC690V及以下,频率50/60Hz船舶交流电网，自动控制应急发电机起停，来满足全船重要负载供配电，具有控制、保护、测量、报警等功能。

产品满足国内外船级社规范、船舶行业标准及国家标准。

PGH2 emergency switchboard is a power distribution unit independently researched and developed by our company and to supply power to important loads in case of emergency.

PGH2 emergency switchboard applies to the marine AC power grid with rated voltage of AC690V or below and frequency of 50/60Hz, and realizes automatic control of emergency generator start and stop, thus to provide all important loads on board with control, protection, measurement, alarm and other functions.

The product meets the requirements of specifications of domestic and foreign ship classifications, shipbuilding industry standard and national standard.

产品特点
Product features

- 拥有自主研发的RF31和西门子授权的8PT柜型，可为客户提供多元化的解决方案；
  With self-developed RF31 and Siemens authorized 8PT cabinet type, can provide customers with diversified solutions；
- 模块化设计，安装与维护方便，安全可靠；
  With unified structure, modular design, easy to install and maintain, safe and reliabe;
- 采用新型框架结构，框架强度高；
  With new frame structure of high strength ;
- 高防护等级，最高可以达到IP54;
  With high protection grade, up to IP54;
- 具有灵活的进出线方式（底部或者顶部）；
  With flexible incoming and outlet cables (top or bottom);
- 主汇流排采用高品质电解铜，镀锡处理，在配电板内水平布置；
  Main busbar takes high quality electrolytic copper with tin plating treatment, and is arranged in the main switchboard horizontally;
- 设有通风散热措施，板内设防潮加热器（选配）。
  With good ventilation and cooling measures, and with moisture-proof and heating equipment inside the panel (optional).

产品功能
Product functions

- 应急发电机的短路、频率超标和电压超标等保护功能，电网绝缘、配电板状态监测及报警指示功能
  With protection for emergency generator short circuit, frequency and voltage out of limits, and monitoring and alarm indication of grid insulation and switchboard status
- 在锚泊/靠港期间，与主电网之间不断电地进行负载转移，实现向主电网进行倒供电（选配）
  During the mooring / landing port, be able to carry out uninterrupted load transfer with the main power grid and realize the reverse power supply to the main power grid (optional)
- 自动控制应急发电机起停并对应急电网供电
  It can automatically control the emergency generator start and stop and supply power to emergency power grid
- 主电网恢复供电自动切断应急电源
  Cut off emergency power supply automatically when the main power grid restores power supply

产品组成
Product composition

- 应急发电机控制屏
  Emergency generator control panel
- 应急动力负载屏
  Emergency power feeder panel
- 应急照明负载屏
  Emergency lighting feeder panel

技术指标
Technical index

- 短时耐受电流Icw（1s）150kA，峰值耐受电流Ipk 375kA
  Short-time withstand current Icw (1s) can be up to 150kA and peak withstand current Ipk can be up to 375kA
- 主汇流排最大电流可至6300A，电压等级可至AC690V，频率为50/60Hz
  The maximum current carrying capacity of the main bus bar can be up to 6300A, the voltage level can be up to AC690V and the frequency is 50/60Hz
- 防护等级最高IP54
  Maximum protection grade IP54
- 环境温度：-10～55℃
  Surrounding temperature: -10～55℃
- 产品标准尺寸见下表
  The standard sizes optional for each panel are shown in the following table:

设备名称 Equipment name	外形尺寸（mm） Outline dimensions (mm)			备注 Remark
	宽（A） W	高（B） H	深（C） D	
RT8PT 配电柜 Distribution cabinet	500/600/700/800	1800	500/600/800	Fig.1
	600/700/800/1000	2000	600/800/1000/1200	
	600/700/800/1000/1200	2100	600/800/1000/1200	
	600/700/800/1000/1200	2200	600/800/1000/1200	
RF31 配电柜 Distribution cabinet	500/600/700/800	1800	500/600/800	Fig.2
	600/700/800/1000	2000	600/800/1000/1200	
	600/700/800/1000/1200	2100	600/800/1000/1200	
	600/700/800/1000/1200	2200	600/800/1000/1200	

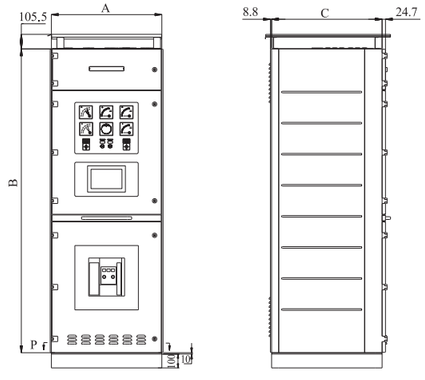

Fig.1

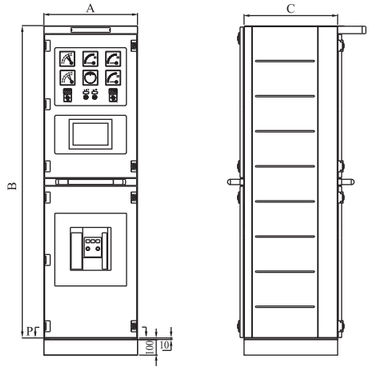

Fig.2

型号命名
Model naming

应急配电板 Emergency switchboard	PGH2	- □	×□	/□
发电机功率 Generator power				
发电机数量 Number of generators				
配电板屏数 Number of switchboard panels				

选型说明
Selection description

PGH2-200×1/3 应急发电机功率为200kW，1台发电机，配电板共3屏。

The power of PGH2-200x1/3 emergency generator is 200kW, a total of 1 generator, and the switchboard has 3 panels in total.