

Overview

纲要

SmartGen genset controllers are used for emergency power supply: fire control, hospital, national defense, data center, oil/mining, edifices, ships, oceaneering, etc. SmartGen has a series of successful application cases.

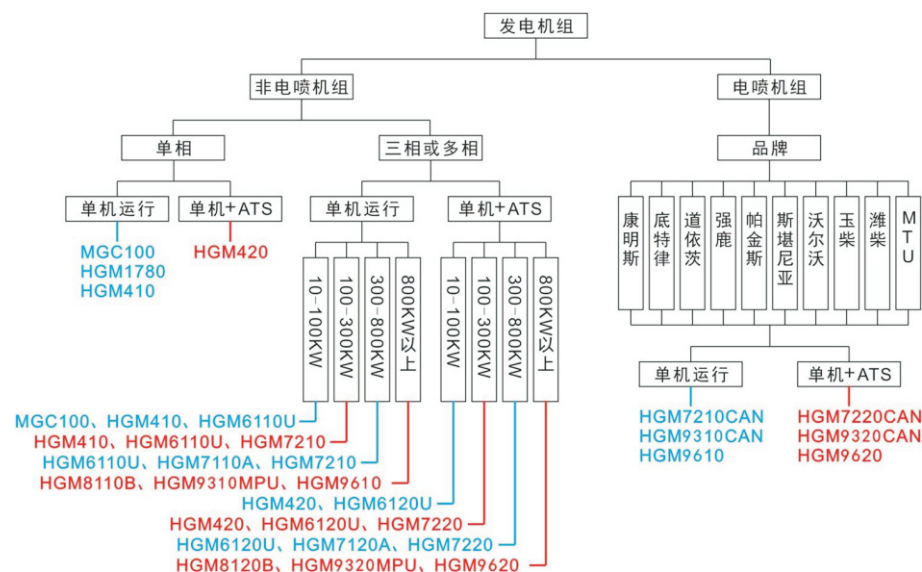
SmartGen发电机组控制器应用于应急电力供应中；如消防、医院、国家防护、数据中心、石油/矿山开采、大厦、船舶及海洋工程等。SmartGen拥有一系列的成功应用案例。

SmartGen genset controller can control and protect emergency power supply well. When mains' power grid is abnormal, the controller can start reserve power supply automatically, and then be running rapidly and securely as load power supply to ensure the requirements of emergency equipment.

SmartGen完善的解决了应急电源的控制和保护；当市电网出现异常时，自动控制备用电源的开启。并迅速、安全的投入运行作为负载供电，保障了应急设备对电源的需求。

Model Selected

产品选型



Model Selected---Divided by Communication Interface

产品选型---按通讯接口分类

LINK: Recommend products: HGM1770, HGM1780, HGM400 series, HGM6100U series

LINK: 推荐产品HGM1770、HGM1780、HGM400系列、HGM6100U系列

Rs485: Recommend products: HGM6100UC series, HGM7200 series, HGM8100B series, HGM9300 series, HGM9600 series

Rs485: 推荐产品HGM6100UC系列、HGM7200系列、HGM8100B系列、HGM9300系列、HGM9600系列

Rs232: Recommend products: HGM8100B series

Rs232: 推荐产品HGM8100B系列

USB: Recommend products: HGM7000 series, HGM9300 series, HGM9600 series

USB: 推荐产品HGM7000系列、HGM9300系列、HGM9600系列

CANBUS: Recommend products: HGM7200CAN series, HGM9300CAN series, HGM9600 series

CANBUS: 推荐产品HGM7200CAN系列、HGM9300CAN系列、HGM9600系列、

GSM: Recommend products: HGM7200 series, HGM9300 series, HGM9600 series

GSM: 推荐产品HGM7200系列、HGM9300系列、HGM9600系列

ETHERNET: Recommend products: HGM9600 series

ETHERNET: 推荐产品HGM9600系列

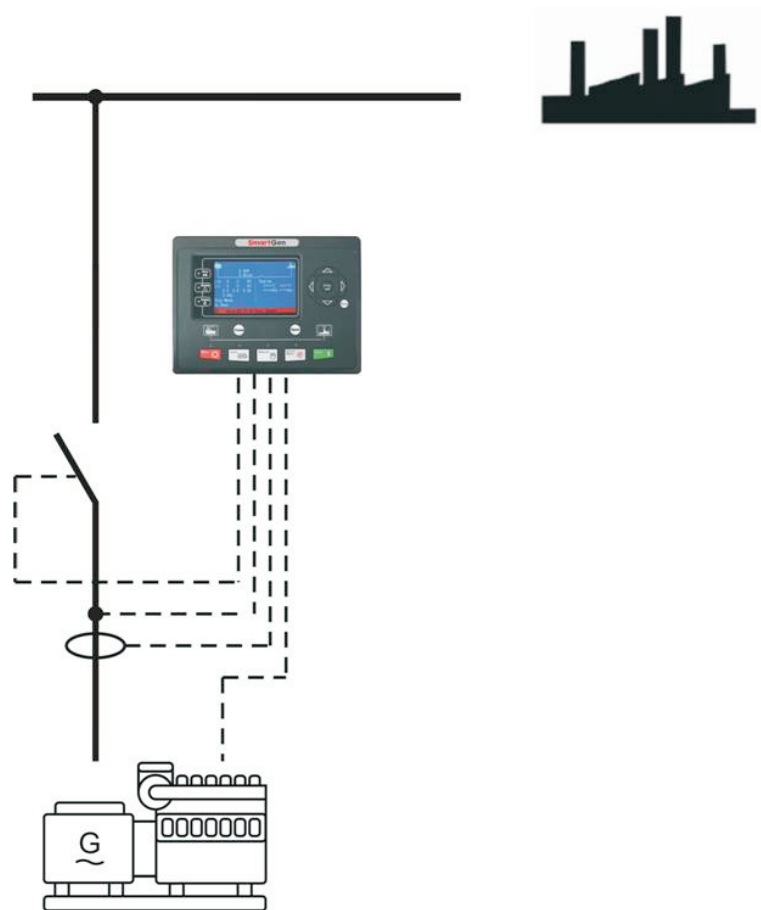


Application

应用方案

Self-starting

自启动方案



Single genset automation: genset automatic start/stop can be controlled by remote start signal.

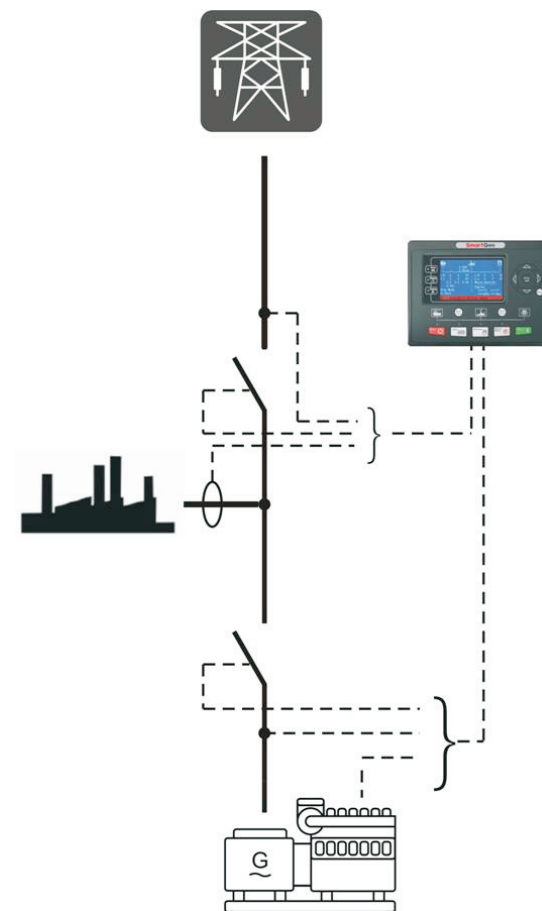
单机自动化：可通过远端开机信号控制发电机组自动开机与停机

Application

应用方案

AMF Solution

AMF解决方案



AMF function: apply to single genset automation system(one mains and one genset)

AMF功能：用于一市一机构成的单机自动化系统

Characteristics

产品特点

MGC100



Characteristics:

1. Genset data display and fault protection
2. Nixie tube display single-phase voltage
3. 4 digital inputs
4. 3 output ports
5. Apply to DC12V system
6. Apply to 3-phase 4-wire, 3-phase 3-wire, 2-phase 3-wire and single phase 2-wire power supply, 50 Hz and 60Hz system

特点:

1. 发电机组的数据显示及故障保护
2. 数码管显示单相电压
3. 4个开关量输入口
4. 3个输出口
5. 适用于DC12V系统
6. 适合于三相四线、三 相三线、二相三线、单相二线电源 50Hz、60Hz系统

HGM1770 / HGM1780



Characteristics:

1. Control, parameter display and protection of single phase genset
2. Current display and detection (only HGM1780)
3. 4 digital inputs
4. 5 relay outputs (only HGM1770)
5. 3 relay outputs (only HGM1780)

特点:

1. 单相发电机组的控制、参数显示、保护
2. 电流显示与检测 (仅限HGM1780)
3. 4个开关量输入口
4. 5个继电器输出 (仅限HGM1770)
- 3个继电器输出 (仅限HGM1780)

HGM410 / HGM420



Characteristics:

1. Control and protection for engine and generator
2. Automatic start or mains fail self-starting function (AMF function)
3. Chinese, English, Spanish and Russian display
4. 4 digital inputs, 6 relay outputs, and 4 analog inputs (2 public input ports)

特点:

1. 发动机和发电机控制与保护
2. 自动启动或市电异常自启动功能 (AMF功能)
3. 中文、英文、西班牙文和俄文多语言显示选择
4. 4个开关量输入, 6个继电器输出和4个模拟量输入 (其中2个与输入口公用)

HGM6100U Series HGM6100U系列



Characteristics:

1. Control and protection for engine and generator
2. Automatic start or mains fail self-starting function (AMF function)
3. 5 digital inputs/6 relay outputs/3 analog inputs
4. Remote monitoring with Modbus RS485 (only HGM6110UC and HGM6120UC have this function)

特点:

1. 发动机和发电机控制与保护
2. 自动启动或市电异常自启动功能 (AMF功能)
3. 5个开关量输入/6个继电器输出/3个模拟量输入
4. 通过Modbus RS485实现远程监控 (仅HGM6110UC和HGM6120UC有此功能)

HGM7000 Series

HGM7000系列



Characteristics:

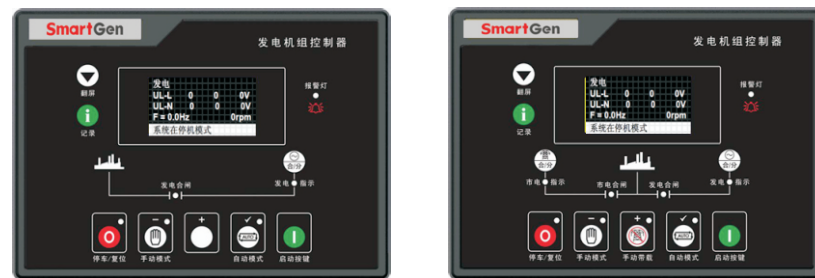
- 1.Engine and generator protection
- 2Automatic start or mains fail self-starting function(AMF function)
- 3.Apply to EFI(J1939) or non-EFI engine
- 4.7 digital inputs/8 relay outputs/5 analog inputs
- 5.USB programming interface
- 6.Scheduled start/stop function(HGM7100 series do not have this function)
- 7.SMS control (HGM7100 series do not have this function)
- 8.Real-time clock & event log
- 9.Remote monitoring via Modbus RS485 (HGM7100 series do not have this function)

特点:

- 1.发动机和发电机保护
- 2.自动起动或市电异常自启动功能（AMF功能）
- 3.适用于电喷（J1939）或非电喷发动机
- 4.7个开关量输入/8个继电器输出/5个模拟量输入
- 5.USB编程接口
- 6.调度控制——定时开关机（HGM7100系列无此功能）
- 7.短信控制（HGM7100系列无此功能）
- 8.实时时钟 & 历史记录
- 9.通过Modbus RS485实现远程监控（HGM7100系列无此功能）

HGM8100B Series

HGM8100B系列



Characteristics:

- 1.Engine and generator protection
- 2Automatic start or mains fail self-starting function(AMF function)
- 3.VFD display---minus 40℃ low temperature display VFD
- 4.Remote monitoring via Modbus RS485
- 5.RS232 programming interface
- 6.6 digital inputs/8 relay outputs/5 analog inputs
- 7.Scheduled start/stop function
- 8.Real-time clock
- 9.Event log

特点:

- 1.发动机和发电机保护
- 2.自动起动或市电异常自启动功能（AMF功能）
- 3.VFD显示——零下40℃低温显示
- 4.通过Modbus RS485实现远程监控
- 5.RS232编程接口
- 6.6个开关量输入/8个继电器输出/5个模拟量输入
- 7.调度功能——定时开关机
- 8.实时时钟
- 9.历史记录

HGM9300 Series

HGM9300系列



Characteristics:

- 1.Engine and generator protection
- 2Automatic start or mains fail self-starting function(AMF function)
- 3.Apply to EFI(J1939) or non-EFI engine
- 4.Remote monitoring via Modbus RS485
- 5.8 digital inputs/8 relay outputs/5 analog inputs
- 6.Scheduled start/stop function
- 7.SMS control
- 8.Real-time clock & event log
- 9.Neutral line current detection
- 10.PLC(programmable logic control)
- 11.With total run A/B and total energy A/B

特点:

- 1.发动机和发电机保护
- 2.自动启动或市电异常自启动功能（AMF功能）
- 3.适用于电喷（J1939）或非电喷发动机
- 4.通过Modbus RS485实现远程监控
- 5.8个开关量输入/8个继电器输出/5个模拟量输入
- 6.调度功能---定时开关机
- 7.短信控制
- 8.实时时钟 & 历史记录
- 9.零线电流检测
- 10.具有PLC(可编程逻辑控制)功能
- 11.具有累计运行A、B与累计电能A、B

HGM9600 Series

HGM9600系列



Characteristics:

- 1.Automatic start or mains fail self-starting function(AMF function)
- 2.Apply to EFI(J1939) or non-EFI engine
- 3.Engine and generator protection
- 4.USB programming interface
- 5.Remote monitoring via Modbus RS485
- 6.8 digital inputs/8 relay outputs/5 analog inputs
- 7.Scheduled start/stop function
- 8.SMS control
- 9.Real-time clock & event log
- 10.Neutral line current detection
- 11.With total run A/B and total energy A/B
- 12.Network port communication (Ethernet)
- 13.Micro SD card---record permanent preservation

特点:

- 1.自动启动或市电异常自启动功能（AMF功能）
- 2.适用于电喷（J1939）或非电喷发动机
- 3.发动机和发电机保护
- 4.USB编程接口
- 5.通过Modbus RS485实现远程监控
- 6.8个开关量输入/8个继电器输出/5个模拟量输入
- 7.调度功能---定时开关机
- 8.短信控制
- 9.实时时钟 & 历史记录
- 10.零线电流检测
- 11.具有累计运行A、B与累计电能A、B
- 12.网口端口通信（ETHERNET）
- 13.Micro SD卡---历史记录永久保存