SmartGen众智

MAKING CONTROL SMARTER

股票代码 Stock Code 301361

PRODUCT CATALOGUE

产品选型样册

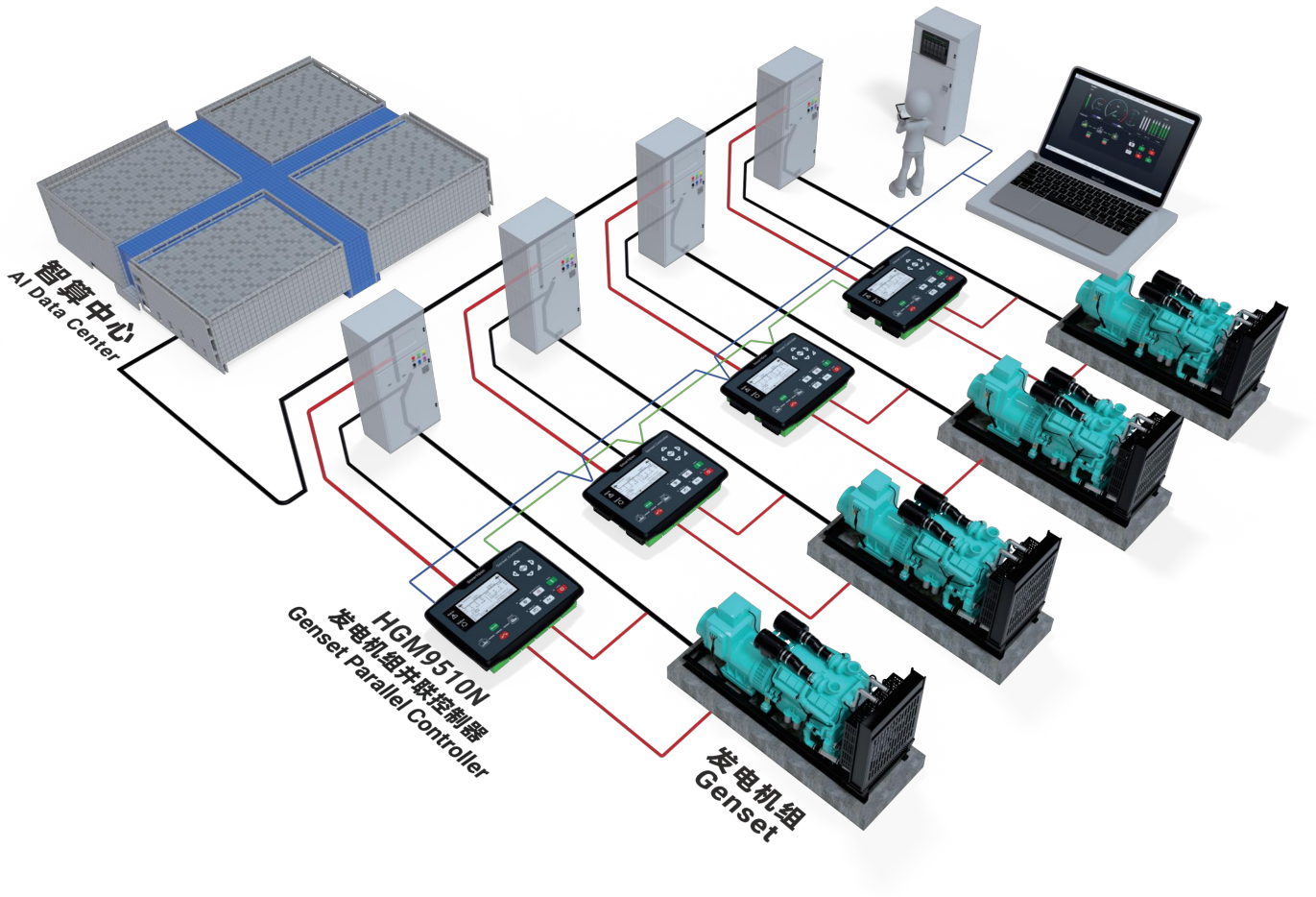
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MAKING CONTROL SMARTER 2026

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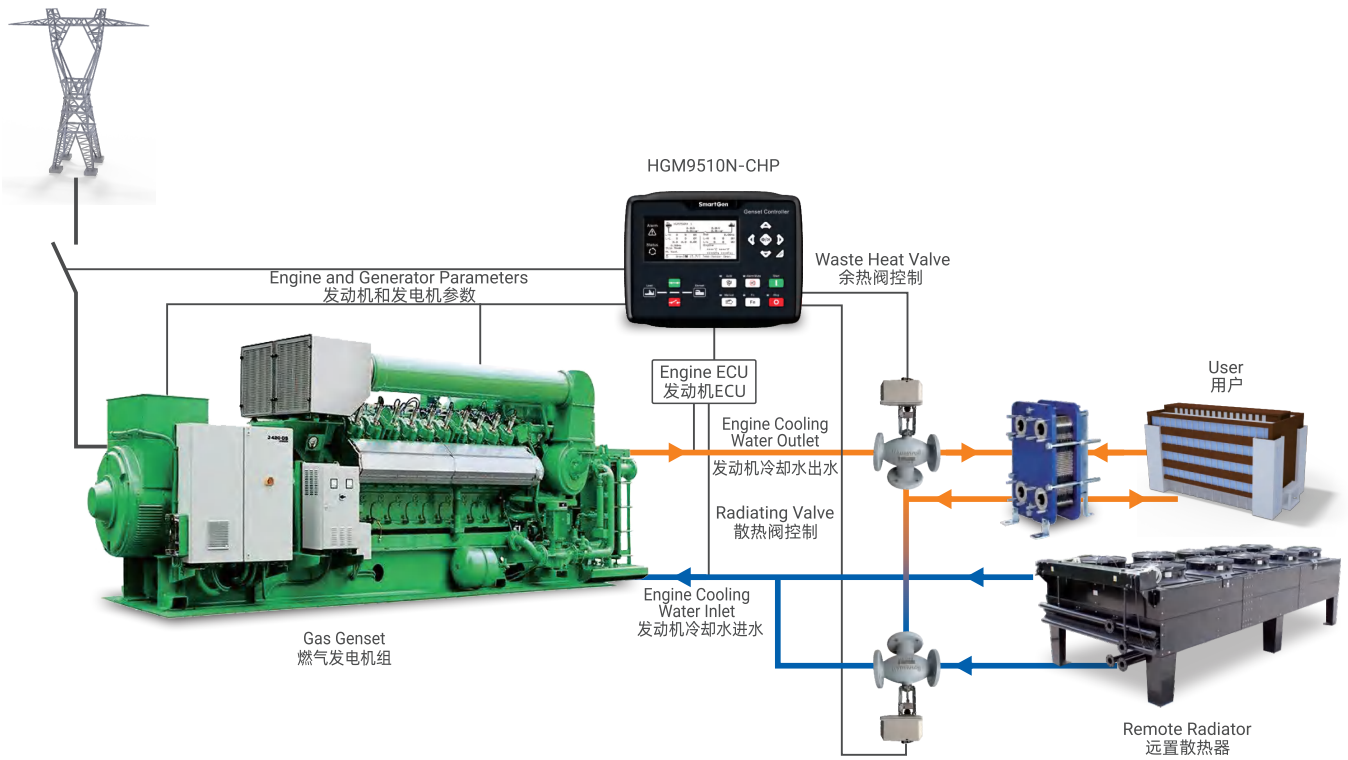
Multi-set Parallel Solution
发电机组多机并联解决方案



Help 32 gensets with same capacity /different capacity to realize automatic synchronization and load share.
HMU15N genset remote monitoring controller is suitable for remote monitoring single/multiple HGM9510N genset controller, fitting with LCD display, touch screen, so this controller is reliable and easy to use.

可满足多达32台同容量或不同容量的机组自动同步和负载均分。
HMU15N发电机组远程监控控制器采用大屏幕液晶(LCD)人机界面显示，适用于远程监控单台或多HGM9510N发电机组控制器，触摸屏操作简单，运行可靠。

Gas Genset Controller (Combined Cooling, Heating and Power)
燃气发电机组控制器（冷热电联供）



HGM9510N-CHP control system is specially developed for the combined heat and power application of gas gensets. It not only has the function of mains grid connection, but also can collect equipment parameters and control external equipment through various expansion modules, and can perform PID control for each valve.
When the engine inlet temperature exceeds the set temperature, the waste heat valve gradually opens to provide the user with waste hot water and stabilize the engine cooling water inlet temperature to the set value.
If the engine temperature continues to rise and the waste heat valve is fully open, open the cooling valve so that the engine circulating water can be cooled through the radiator.

HGM9510N-CHP控制系统是专为燃气发电机组热电联供应用开发，不仅具有市电并网功能，还可通过各种扩展模块来采集设备参数和控制外部设备，并可以对每个阀进行PID控制。

发动机进机温度超过设定温度时，余热阀逐渐打开，给用户提供余热热水，并使发动机冷却水进机温度稳定到设定值。

如果发动机温度持续升高并且余热阀全开后，打开散热阀，使发动机循环水可以通过散热器进行冷却。

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GENSET CONTROLLER / 发电机组控制器



HGM9510
Multi-set Parallel Controller
多机并联控制器



HGM9560
Bus Tie Mains Parallel Controller
发电母排并市网并联控制器



HGM9530N
Redundant System Parallel Controller
冗余并联控制器



HMB9700
Split Redundant Parallel Controller
分体式冗余并联控制模块

Model/型号	HGM9510	HGM9520	HGM9530	HGM9560	HGM9580	HGM9510N	HGM9530N	HMB9700
Main Functions 主要功能	With USB interface and LCD display; HGM9510/9510N controller is genset-genset synchronising unit while HGM9520 is genset-mains one. HGM9530 controller is genset-genset synchronising unit (expandable analogue inputs), HGM9560 controller is bus tie mains synchronising unit while HGM9580 is bus tie bus one. 图形液晶显示带USB接口的并联控制器。HGM9510/9510N是发电-发电自动并联控制器；HGM9520是发电-市电自动并网控制器；HGM9530是发电-发电并联控制器(可扩展模拟量输入口)；HGM9560是机组母排-市电自动并网控制器；HGM9580是机组母排-机组母排自动并联控制器。							
Display/显示器	4.3-inch TFT-LCD(480*272)/4.3英寸彩屏					4.3-inch LCD (240*128) 4.3英寸液晶显示器		
Operation Panel/操作面板	Silicon Rubber/硅胶							
Language/控制器语言	Chinese & English & Others/中文 & 英文 & 其它							
Digital Input/开关量输入口	7	8	7	8	7	10		
Relay Output/继电器输出口	8					10		
Analog Input/模拟量输入口	5					5		
AMF/市电检测		●		●				
AC System/交流制式	1P2W/2P3W/3P3W/3P4W							
AC Voltage/交流电压范围	AC(15~360)V(ph-N)							
AC Frequency/交流频率	50/60Hz							
kW/Amp Detecting & Display 功率/电流检测及显示	●					●		
Monitor Port/监控接口	RS485					RS485/ ETHERNET	RS485-1/RS485-2/ ETHERNET	
Programming Port/编程接口	USB/RS485					USB/RS485/ ETHERNET	USB/RS485-1/ RS485-2/ETHERNET	
Module Redundant/模块冗余							●	
MSC Redundant/MSC冗余							●	
Digital Input/Output Module Extension 可扩展开关量输入/输出模块		●				●		
Analog Input Module Extension 可扩展模拟量输入模块			●			●		
CANBUS(J1939)		●				●		
GOV		●				●		
AVR		●				●		
RTC & Event Log 实时时钟及历史记录	●							
Scheduled Start Genset 定时试机		●				●		
Maintenance/保养功能		●				●		
PLC/用户可编辑逻辑		●				●		
DC Supply/直流工作电源范围	DC(8~35)V							
Case Dimensions 外形尺寸(mm)	266*182*45(L*W*H)					242*186*49(L*W*H)		248*158*49 (L*W*H)
Panel Cutout/安装尺寸(mm)	214*160							
Operating Temp./工作温度	(-40~+70)℃					(-25~+70)℃		



HGM9310MPU/CAN
Single Color Auto-start/AMF
Genset Controller
单机彩屏自启动/AMF发电机组控制器



HGM9320MPU/CAN
Single Color Auto-start/AMF
Genset Controller
单机彩屏自启动/AMF发电机组控制器



HGM9420N/LT
Enhanced Genset Controller
增强型发电机组控制器

Model/型号	HGM9310MPU	HGM9310CAN	HGM9320MPU	HGM9320CAN	HGM9420N
Main Functions 主要功能	With auto start/AMF function and USB interface; HGM9300MPU controller has monitor interface and SMS function; HGM9300CAN controller has ECU interface(SAEJ1939);HGM9420N/LT genset controller can realize automatic start/AMF/synchronous transfer/cloud monitoring of single unit. HGM9420LT can work in environment of (-40~+70)℃. 具有自启动/AMF功能和USB接口；HGM9300MPU带有监控接口和SMS功能；HGM9300CAN 带电喷接口功能；HGM9420N/LT发电机组控制器可实现单机自起动/AMF/同步切换/云监控功能，HGM9420LT可用于（-40~+70）℃的工作环境。				
Display/显示器	4.3-inch TFT-LCD(480*272)/4.3英寸彩屏				4.3-inch LCD (240*128) 4.3英寸液晶显示器
Operation Panel/操作面板	Silicon Rubber/硅胶				
Language/控制器语言	Chinese＆English＆Others/中文＆英文＆其它				
Digital Input/开关量输入口	8				10
Relay Output/继电器输出口	8				12
Analog Input/模拟量输入口	5				6（电阻/电压/电流）
AMF/市电检测			●		
AC System/交流制式	1P2W/2P3W/3P3W/3P4W				
AC Voltage/交流电压范围	AC(15~360)V(ph-N)				
AC Frequency/交流频率	50/60Hz				
kW/Amp Detecting & Display 功率/电流检测及显示	●				
Monitor Port/监控接口	RS485				RS485*2 /ETHERNET
Programming Port/编程接口	USB/RS485				USB/RS485*2 /ETHERNET
Digital Input/Output Module Extension 可扩展开关量输入/输出模块		●		●	
CANBUS(J1939)		●		●	CANBUS*2
RTC & Event Log 实时时钟及历史记录	●				
Scheduled Start Genset 定时试机	●				
Maintenance/保养功能	●				
PLC/用户可编辑逻辑	●				
SMS/短信功能	●				
DC Supply 直流工作电源范围	DC(8~35)V				
Case Dimensions 外形尺寸(mm)	237*172*45(L*W*H)				242*186*49(L*W*H)
Panel Cutout 安装尺寸(mm)	214*160				
Operating Temp. 工作温度	(-40~+70)℃				(-25~+70)℃

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GENSET CONTROLLER / 发电机组控制器



HGM8110V/HGM8110CAN
Low-temperature Single Genset Controller
低温单机发电机组控制器



HGM8120V/HGM8120CAN
Low-temperature AMF Genset Controller
低温AMF发电机组控制器



HGM8110Z
Domestic Low-temperature Single Genset Controller
纯国产化低温单机发电机组控制器

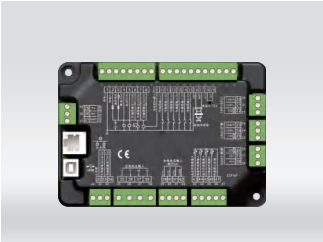


HGM8120Z
Domestic Low-temperature Single Genset Controller
纯国产化低温单机发电机组控制器

Model/型号	HGM8110V	HGM8110CAN	HGM8120V	HGM8120CAN	HGM8110Z	HGM8120Z
Main Functions 主要功能	It can work in environment of (-40~+70)℃, and also can operate normally in EMI environment. Auto start and AMF function are available. HGM8100V controller has RS485 monitoring interface, HGM8100CAN controller has CANBUS interface and can expand I/O port module. 适应（-40~+70）℃的工作环境，具有自启动和AMF功能，可在强磁干扰下工作。HGM8100CAN具有CANBUS接口，可扩展IO口模块。				Suitable for the automatic control of single genset, which has strong anti-electromagnetic interference ability. The components are 100% domestically produced, and it can work normally at the temperature of -40°C. 适用于单台发电机组自动化控制，具有强大的抗电磁干扰能力，全国产化元器件，能够适应-40℃环境下工作。	Suitable for the automatic control of single genset, which has AMF function and strong anti-electromagnetic interference ability. The components are 100% domestically produced, and it can work normally at the temperature of -40°C. 适用于单台发电机组自动化控制，AMF功能，具有强大的抗电磁干扰能力，全国产化元器件，能够适应-40℃环境下工作。
Display/显示器	VFD				LCD	
Operation Panel/操作面板	Silicon Rubber/硅胶					
Language/控制器语言	Chinese＆English＆Others/中文＆英文＆其它				Chinese&English/中文&英文	
Digital Input/开关量输入口	8					
Relay Output/继电器输出口	8					
Analog Input/模拟量输入口	5					
AMF/市电检测			●			●
AC System/交流制式	1P2W/2P3W/3P3W/3P4W					
AC Voltage/交流电压范围	AC(15~360)V(ph-N)				AC 15V ~ 360V (ph-N) AC 30V ~ 620V (ph-ph)	
AC Frequency/交流频率	50/60Hz					
kW/Amp Detecting & Display 功率/电流检测及显示	●					
Monitor Port/监控接口	RS485	RS485/ETHERNET	RS485	RS485/ETHERNET	RS232/RS485/ETHERNET	
Programming Port/编程接口	USB/RS485	USB/RS485/ ETHERNET	USB/RS485	USB/RS485/ETHERNET		
Digital Input/Output Module Extension 可扩展开关量输入/输出模块		●		●	DIN16A/DOUT16B/AIN24/AIN8	
CANBUS(J1939)		●		●		
RTC & Event Log 实时时钟及历史记录	●					
Scheduled Start Genset 定时试机	●					
Maintenance/保养功能	●					
PLC/用户可编辑逻辑	●					
SMS/短信功能	●					
ETHERNET/以太网		●		●		
DC Supply/直流工作电源范围	DC(8~35)V					
Case Dimensions/外形尺寸(mm)	242*186*53(L*W*H)					
Panel Cutout/安装尺寸(mm)	214*160					
Operating Temp./工作温度	(-40~+70)℃					



HGM8140ZD
Domestic Low-temperature Split Genset Controller
纯国产化低温分体式发电机组控制器



HGM8140ZM
Domestic Low-temperature Split Genset Control Module
纯国产化低温分体式发电机组控制模块



HGM8151Z
Domestic Low-temperature Genset Controller
纯国产化低温发电机组控制器



HGM8510D/M
Paralleled Genset Controller
发电机组并联控制器

Model/型号	HGM8140ZD	HGM8140ZM	HGM8151Z	HGM8510D	HGM8510M
Main Functions 主要功能	integrating digital, intelligent and network technology, adopts "Main Control and Display" separated type mode. It is suitable for single unit automation and monitoring system to achieve automatic start/stop, data measurement, alarm protection as well as remote control, and "Three Remotes" function of gensets. 集成了数字化、智能化、网络化技术，采用【主控和显示】分体式模式，适用于单台发电机组自动化及监控系统、实现发电机组的自动开机/停机、数据测量、报警保护及“三遥”功能。		It is used for manual/automatic parallel system of multiple gensets with the same capacity or different capacities, as well as constant power output and mains grid connection of single genset. It will realize automatic start/stop/parallel operation, data measurement, alarm and protection, and "Three Remotes" function of gensets. 用于多台同容量或不同容量的发电机组的手动/自动并联系统以及适用于单台发电机组恒功率输出和市电并网，实现发电机组的自动开机停机/并联运行、数据测量、报警保护及“三遥”功能。		
Display/显示器	LCD(132*64)		LCD	4.3-inch TFT-LCD (480*272)/4.3英寸彩屏	
Operation Panel/操作面板	Silicon Rubber/硅胶		Silicon Rubber/硅胶		
Language/控制器语言	中文 & 英文 & 西班牙		Chinese&English/中文&英文		
Digital Input/开关量输入口		6	8		20
Relay Output/继电器输出口		7	8	1	8+12 Transistor Output 8+12晶体管输出
Analog Input/模拟量输入口		4	5		6
AC System/交流制式		1P2W/2P3W/3P3W/3P4W			1P2W/2P3W/3P3W/3P4W
AC Voltage/交流电压范围		AC(15~360)V(ph-N)			AC(15-520)V(ph-N)
AC Frequency/交流频率		50Hz/60Hz			50Hz/60Hz
kW/Amp Detecting & Display 功率/电流检测及显示	●		●		
Monitor Port/监控接口		RS485	RS485/RS232/ETHERNET	RS485/ETHERNET	
Master Control & Display Comm. Port 主控与显示通讯接口	RS232/CANBUS			ETHERNET	
Digital Input/Output Module Extension 可扩展开关量输入/输出模块			●		●
Programming Port/编程接口	USB	USB/RS485	USB/RS485/ETHERNET		
PLC/用户可编辑逻辑			●		
CANBUS(J1939)		●			●
RTC & Event Log 实时时钟及历史记录	●				
Battery pack voltage sampling 电池组电压采样		DC input (0-75) V 直流输入（0-75）V			
Maintenance/保养功能	●				
Scheduled Start Genset 定时试机	●				
DC Supply 直流工作电源范围	DC(8~35)V				
Case Dimensions 外形尺寸(mm)	136*110*41(L*W*H)	150*104*41(L*W*H)	242*186*53(L*W*H)	220*130*52(L*W*H)	250*165*83(L*W*H)
Panel Cutout 安装尺寸(mm)	122*94		214*160	201*111	Hole Dia. 孔径Φ5.5x4, Hole Spacing/孔距:237.5x152.5
Operating Temp. 工作温度	(-40~+70)℃			(-25~+70)℃	

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GENSET CONTROLLER / 发电机组控制器



HGM7220N/S
4G Integrated AMF
Genset Controller
4G一体式AMF发电机组控制器



HGM7110N
Cloud Monitoring Integrated
Genset Controller
云监控一体式发电机组控制器



HGM7120N
Genset Controller
发电机组控制器

Model/型号	HGM7220N	HGM7220S	HGM7110N	HGM7120N
Main Functions 主要功能	HGM7220N/HGM7220S has 4G cloud monitoring function and HGM7220S has mains synchronous switchover function. HGM7220N/HGM7220S具有4G云监控功能，HGM7220S具有市电同步切换功能。		HGM7100N controller has Ethernet port cloud monitoring function. HGM7100N具有以太网口云监控功能。	
Display/显示器	LCD(132*64)			
Operation Panel 操作面板	Silicon Rubber/硅胶			
Language/控制器语言	Chinese & English & Others/中文 & 英文 & 其它			
Digital Input 开关量输入口	7			
Relay Output 继电器输出口	8			
Analog Input/模拟量输入口	5			
AMF/市电检测	●			●
AC System/交流制式	1P2W/2P3W/3P3W/3P4W			
AC Voltage/交流电压范围	AC(15~360)V(ph-N)			
AC Frequency/交流频率	50/60Hz			
kW/Amp Detecting & Display 功率/电流检测及显示	●			
Monitor Port/监控接口	RS485		RS485/ETHERNET	
Programming Port/ 编程接口	USB/RS485		RS485/USB/ETHERNET	
Built-in Cloud Monitoring 内置云监控	●			
CANBUS(J1939)	●			
RTC & Event Log 实时时钟及历史记录	●			
Scheduled Start Genset 定时试机	●			
Maintenance/保养功能	●			
DC Supply 直流工作电源范围	DC(8~35)V			
SMS/短信功能	●			
Panel Cutout 安装尺寸(mm)	186*141			
Case Dimensions 外形尺寸(mm)	209*166*45(L*W*H)		209*166*45(L*W*H)	
Operating Temp. 工作温度	(-25~+70)℃			



HGM6110N/CAN
Single Auto-start Genset Controller
单机自启动发电机组控制器



HGM6120N/CAN
AMF Genset Controller
AMF发电机组控制器



HGM6110N-4G/CAN-4G
4G Integrated Single Auto-start Genset Controller
4G一体式单机自启动发电机组控制器



HGM6120N-4G/CAN-4G
AMF Genset Controller
AMF发电机组控制器

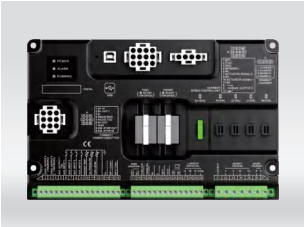
Model/型号	HGM6110N	HGM6110CAN	HGM6120N	HGM6120CAN	HGM6110N-4G	HGM6110CAN-4G	HGM6120N-4G	HGM6120CAN-4G
Main Functions 主要功能	HGM6110N/6110CAN: With auto start function. HGM6110N is basic controller, HGM6110CAN is controller with ECU port.Based on HGM6110N/6110CAN, it adds mains power monitoring and mains/generator automatic switching control (AMF), especially suitable for the automation system composed by mains and genset.HGM6110LT/6120LT can be applied to (-40℃~+70℃) temperature environment. HGM6110N/6110CAN:具有自启动功能，HGM6110N为基本型控制器，HGM6110CAN为具有ECU接口的控制器。HGM6120N/6120CAN在HGM6110N/6110CAN的基础上增加了市电电量监测和市电/发电自动切换功能（AMF），特别适用于一市一机构成的单机自动化系统。HGM6110LT/6120LT可适用于（-40~+70℃）的温度环境。				HGM6110N-4G/6110CAN-4G: It is used for single unit automation, it controls genset auto start/stop by remote start signal.HGM6120N-4G/6120CAN-4G: based on HGM6110N-4G/6110CAN-4G, it adds mains power monitoring and mains/generator automatic switch control (AMF). It has 4G network communication module inside and the network communication module also has SMS function. HGM6110N-4G/6110CAN-4G:用于单机自动化,通过远端开机信号控制发电机组自动开机与停机;HGM6120N-4G/6120CAN-4G:在HGM6110N-4G/6110CAN-4G基础上增加了市电电量监测和市电/发电自动切换控制功能(AMF);内置4G网络通信模块，网络通信模块也具有SMS短信功能。			
Display/显示器	LCD(132*64)							
Operation Panel/操作面板	Silicon Rubber/硅胶							
Language/控制器语言	Chinese, English, Spanish, Russian, Portuguese, Turkish, Polish, French, etc. 中文、英文、西班牙文、俄文、葡萄牙、土耳其、波兰语、法语等							
Digital Input/开关量输入口	5							
Relay Output/继电器输出口	6							
Analog Input/模拟量输入口	3							
AMF/市电检测			●				●	
AC System/交流制式	1P2W/2P3W/3P3W/3P4W							
AC Voltage/交流电压范围	AC(15~360)V(ph-N)							
AC Frequency/交流频率	50/60Hz							
kW/Amp Detecting & Display 功率/电流检测及显示	●							
Monitor Port/监控接口		●		●		●		●
Programming Port/编程接口	USB	USB/RS485	USB	USB/RS485	USB	USB/RS485	USB	USB/RS485
CANBUS(J1939)		●		●		●		●
RTC & Event Log 实时时钟及历史记录	●							
Scheduled Start Genset 定时试机	●							
Maintenance/保养功能	●							
SMS/短信功能						●		
DC Supply/直流工作电源范围	DC(8~35)V							
Case Dimensions/外形尺寸(mm)	209*167*45(L*W*H)							
Panel Cutout/安装尺寸(mm)	186*141							
Operating Temp./工作温度	(-25~+70)℃							

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GENSET CONTROLLER / 发电机组控制器



HGMS61D
Split Single Auto-start Genset Controller
分体式单机自启动发电机组控制器



HGMS61M
Split Single Auto-start Genset Control Module
分体式单机自启动发电机组控制模块



HGMS62D
Split AMF Genset Controller
分体式AMF机组控制器



HGMS62M
Split AMF Genset Control Module
分体式AMF机组控制模块

Model/型号	HGMS61D	HGMS61M	HGMS62D	HGMS62M
Main Functions 主要功能	HGMS61/HGMS62 is the genset controller adopts split type structure with master control and display. The control system can be quickly set up to realize automatic start/stop, data measurement, alarm protection and "four remote" (remote control remote measurement, remote communication, remote adjusting) functions, HGMS62 has AMF function, DC+5V output (voltage type sensor supplies power) HGMS61/HGMS62是主控和显示采用分体式结构的发电机组控制器，控制系统可快速成套，实现发电机组的自动开机/停机、数据测量、报警保护及“四遥”功能，HGMS62具有AMF功能，DC+5V输出（电压型传感器供电）。			
Display/显示器	LCD(132*64)		LCD(132*64)	
Operation Panel/操作面板	Silicon Rubber/硅胶		Silicon Rubber/硅胶	
Language/控制器语言	中文＆英文＆其他		中文＆英文＆其他	
Digital Input/开关量输入口		4		4
Relay Output/继电器输出口		6		6
Analog Input/模拟量输入口		5（其中2路可定义电压型、电阻型、电流型）		5（其中2路可定义电压型、电阻型、电流型）
AC System/交流制式		1P2W/2P3W/3P3W/3P4W		1P2W/2P3W/3P3W/3P4W
AC Voltage/交流电压范围		AC(15~360)V(ph-N)		AC(15~360)V(ph-N)
AC Frequency/交流频率		50Hz/60Hz		50Hz/60Hz
kW/Amp Detecting & Display 功率/电流检测及显示	●		●	
Monitor Port/监控接口		USB/RS485		USB/RS485
Master Control & Display Comm. Port 主控与显示通讯接口	RS232			
Programming Port/编程接口	USB	USB/RS485	USB	USB/RS485
CANBUS(J1939)		HGMS61MCAN ●		HGMS62MCAN ●
RTC & Event Log 实时时钟及历史记录	●			
Maintenance/保养功能	●			
Scheduled Start Genset 定时试机	●			
DC Supply 直流工作电源范围	DC(8~35)V			
Panel Cutout 安装尺寸(mm)	186*141	Hole Spacing/孔距230.5*125.5	186*141	Hole Spacing/孔距230.5*125.5
Case Dimensions 外形尺寸(mm)	209*167*45(L*W*H)	243*158*65(L*W*H)	209*167*45(L*W*H)	243*158*65(L*W*H)
Operating Temp. 工作温度	(-25~+70)℃			



HGM6120P-4G
Single Auto-start Genset Controller
单机自启动发电机组控制器



HGM6110NC-5
Single Auto-start Genset Controller
单机自启动发电机组控制器



HGM6120NC-5
Single Auto-start Genset Controller
单机自启动发电机组控制器

Model/型号	HGM6120P-4G	HGM6110NC-5	HGM6120NC-5
Main Functions 主要功能	Suitable for automatic control and monitoring system of single genset. TFT LCD display allows it to work normally in environments as low as -40°C. 适用于单台发电机组自动化及监测的系统。采用TFT液晶显示，能够在-40°C环境下工作。	It is used for automatic control and monitoring system of single genset. It can carry out functions of automatic start/stop, data measurement, alarm protection and "Three Remote" (remote control, remote measurement and remote communication). Oil pressure and liquid level sensor supports voltage, resistance, and current type sensors. 用于单台发电机组自动化及监控系统，实现发电机组的自动开机/停机、数据测量、报警保护及“三遥”功能，油压及液位传感器支持电压、电阻和电流型传感器。	It is used for automatic control and monitoring system of single genset. It can carry out functions of AMF, automatic start/stop, data measurement, alarm protection and "Three Remote" (remote control, remote measurement and remote communication). Oil pressure and liquid level sensor supports voltage, resistance, and current type sensors. 用于单台发电机组自动化及监控系统，AMF功能，实现发电机组的自动开机/停机、数据测量、报警保护及“三遥”功能，油压及液位传感器支持电压、电阻和电流型传感器。
Display/显示器	3.5-inch Color LCD/3.5英寸彩屏	LCD(132x64)	
Operation Panel/操作面板	Silicon Rubber/硅胶		
Language/控制器语言	Chinese & English & Others/中文 & 英文 & 其它		
Digital Input/开关量输入口	5		
Relay Output/继电器输出口	7	6	
Analog Input/模拟量输入口	3		
AMF/市电检测	●		●
AC System/交流制式	1P2W/2P3W/3P3W/3P4W		
AC Voltage/交流电压范围	AC(15~360)V(ph-N)　AC(30~620)V(ph-ph)		
AC Frequency/交流频率	5Hz~75Hz	50Hz/60Hz	
kW/Amp Detecting & Display 功率/电流检测及显示	●		
Monitor Port/监控接口	RS485		
Programming Port/编程接口	USB(Type-C)/RS485	USB/RS485	
CANBUS(J1939)	●		
RTC & Event Log 实时时钟及历史记录	●		
Maintenance/保养功能	●		
PLC/用户可编辑逻辑	●		
SMS/短信功能	●		
DC Supply 直流工作电源范围	DC(8~35)V		
Panel Cutout 安装尺寸(mm)	186*141		
Case Dimensions 外形尺寸(mm)	209*166*45(L*W*H)		
Operating Temp. 工作温度	(-40~+70)℃	(-25~+70)℃	

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GENSET CONTROLLER / 发电机组控制器



HGM4010(N/NC/CAN)
Single Genset Controller
单机发电机组控制器



HGM4020(N/NC/CAN)
AMF Genset Controller
AMF发电机组控制器



HGM4100Z
Low-temperature Genset Controller
低温发电机组控制器

Model/型号	HGM4010N	HGM4020N	HGM4010NC	HGM4020NC	HGM4010CAN	HGM4020CAN	HGM4100Z
Main Functions 主要功能	With auto start/AMF function; HGM4000N is the basic type. HGM4000NC is the controller with the monitor interface. HGM4000CAN is the controller with CANBUS interface. HGM4100Z Genset Controller is used for the automatic control of single genset. It is suitable for ECU and non-ECU engines. The controller can realize “Three Remote” function via the RS485 interface. The components are 100% domestically produced, and it can work normally at the temperature of -40℃. 具有自启动/AMF功能，HGM4000N为基本型控制器，HGM4000NC为带监控接口的控制器，HGM4000CAN为具有CANBUS接口的控制器。HGM4100Z发电机组控制器适用于单台发电机组的自动化控制，适用于电喷机组和非电喷机组,可通过RS485接口实现“三遥”功能，全国产化元器件，能够适应-40℃环境下工作。						
Display/显示器	LCD(132*64)						
Operation Panel 操作面板	Silicon Rubber/硅胶						
Language 控制器语言	Chinese, English, Spanish, Russian, Portuguese, Turkish, Polish, French, etc. 中文、英文、西班牙文、俄文、葡萄牙、土耳其、波兰语、法语等						Chinese&English&Others 中文&英文&其它
Digital Input 开关量输入口	3+(2)						3
Relay Output 继电器输出口	6						
Analogue Input 模拟量输入口	2+(2)						4
AMF/市电检测		●		●		●	
AC System/交流制式	1P2W/2P3W/3P3W/3P4W						
AC Voltage/交流电压范围	AC(15~360)V(ph-N)						AC(15~360)V(ph-N) AC(30~620)V(ph-ph)
AC Frequency/交流频率	50/60Hz						
kW/Amp Detecting & Display 功率/电流检测及显示	●						
Monitor Port/监控接口			RS485				
Programming Port/ 编程接口	USB		USB/RS485				
CANBUS(J1939)					●		
RTC & Event Log 实时时钟及历史记录	●						
Scheduled Start Genset 定时试机	●						
Maintenance/保养功能	●						
DC Supply 直流工作电源范围	DC(8~35)V						
Case Dimensions 外形尺寸(mm)	135*110*46(L*W*H)						
Panel Cutout 安装尺寸(mm)	116*90						
Operating Temp. 工作温度	(-25~+70)℃						(-40~+70)℃



HGM1791LT/LT-CAN
Low-temperature Single Genset Controller
低温单机发电机组控制器



HSC941
Gas Genset Controller
燃气机组控制器



HGM4020T
Telecom Base Station Genset Controller
通信基站发电机组控制器



HGM6120T/TD
Telecom Base Station Genset Controller
通信基站发电机组控制器

Model/型号	HGM1791LT/LT-CAN	HSC941	HGM4020T	HGM6120T/TD
Main Functions 主要功能	Suitable for automatic control and monitoring system (can also be used for pump units). The controller can realize manual start/stop of genset, and automatic start/stop of generator via remote start signals. It can monitor and protect the genset by collecting and analyzing data such as generator voltage, current, water temperature, oil pressure, etc. 适用于单机自动化及监控(也可用于水泵机组)。控制器可实现对机组的手动开机/停机，也可通过远端开机信号自动起动/停止发电机，通过采集与分析发电电压、电流、水温、油压等数据对机组进行监控和保护。	Is used for automation system of single genset, which has analog collection interfaces. It can adjust the engine speed by driving the stepper motor to adjust the throttle position. 用于单机自动化系统，有模拟量采样接口，通过驱动步进电机调节节气门开度，实现速度调节。	Can control the genset start/stop based on the actual work condition of the mobile telecom base station, which is suitable for non-ECU engines. 依照移动基站的实际工况可实现多种条件的开/停机，适配非电喷机组。	Can control the genset start/stop based on the actual work condition of the mobile telecom base station, which is suitable for ECU and non-ECU engines. With the built-in network communication module, it can enable remote cloud monitoring of gen. HGM6120TD supports dual SIM card and dual standby function. 依照移动基站的实际工况可实现多种条件的开/停机，适配电喷机组和非电喷机组。内置网络通信模块，可实现发电机组远程云监控。HGM6120TD支持双卡双待。
Display/显示器	LCD(128x64)	LCD		
Operation Panel 操作面板	Silicon Rubber/硅胶			
Language 控制器语言	Chinese&English/中文&英文			
Digital Input 开关量输入口	3 (multiplexed as analog input) 3（可复用为模拟量输入）	5	4+(2)+(1)	5
Relay Output 继电器输出口	5	6	5+(1)	6
Analogue Input 模拟量输入口	Shared with digital input 和开关量输入口共用	3	2+(2)	3
AMF/市电检测			●	
AC System/交流制式	1P2W	1P2W/2P3W/3P3W/3P4W		
AC Voltage/交流电压范围	AC(15~360)V(ph-N)			
AC Frequency/交流频率	50/60Hz			
kW/Amp Detecting&Display 功率/电流检测及显示	●			
Monitor Port/监控接口	RS485	USB/RS485		
Programming Port/ 编程接口	RS485	USB/RS485		
SMS/短信功能				●
RTC/实时时钟	●			
Event Log/历史记录	●		●	
Scheduled Start Genset 定时试机		●		
Maintenance/保养功能			●	
DC Supply 直流工作电源范围	DC(8~35)V			
Case Dimensions 外形尺寸(mm)	96*86*47(L*W*H)	135*110*46(L*W*H)	135*110*44(L*W*H)	209*167*45(L*W*H)
Panel Cutout 安装尺寸(mm)	78*66	116.5*91.5	116*90	186*141
Operating Temp. 工作温度	(-40~+70)℃	(-25~+70)℃		

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GENSET CONTROLLER / 发电机组控制器



HMU15N
Genset Remote Monitoring Controller
发电机组远程监控控制器



HMU8N
Genset Remote Monitoring Controller
发电机组远程监控控制器

Model/型号	HMU15N	HMU8N
Main Functions 主要功能	It is used for remote monitoring of single/multiple gensets, which can realize remote start/stop, auto/manual mode switch, close/open operation and data measurement, alarms display functions. 用于单台或多台发电机组控制器的远程监控，可实现远程开停机、自动手动模式切换、合分闸操作以及数据监测、报警显示功能。	HMU8N Remote Monitoring System can realize remote start/stop and data monitoring for 6 genset controllers via RS485 interfaces or one Ethernet interface. With 8-inch capacitive touch screen, it has multi-level operation authorities and is easy to operate. HMU8N远程监控系统能够通过RS485接口或以太网接口实现6台发电机组控制器的远程开/停机及数据监测功能，8吋触摸屏显示，多级权限，操作简单。
Display/显示器	15-inch color touch screen/15英寸彩色触屏	8-inch color touch screen/8英寸彩色触屏
Language/控制器语言	Chinese & English & Others/中文 & 英文	
Brightness Adjustment/亮度调节	Adjustable/可调节	
Operation Permission/操作权限	Engineer, technician/工程师、技术员	
Number of Gensets/机组数量	10	6
Monitor Port/监控接口	4-Way RS485、1*CANBUS/1-WayETHERNET 4路RS485接口、1个CANBUS接口、1路ETHERNET	
Ethernet/以太网	1路	
RTC &Event Log 实时时钟及历史记录	●	
One-key Stop Function 一键停机功能	●	
DC Supply 直流工作电源范围	DC(8~35)V	DC(10~36)V
Case Dimensions 外形尺寸(mm)	377*316*76(L*W*H)	221*163*51(L*W*H)
Panel Cutout 安装尺寸(mm)	358.5*297.2	205*147
Operating Temp. 工作温度	(-25~+70)°C	
IP/防护等级	IP65	



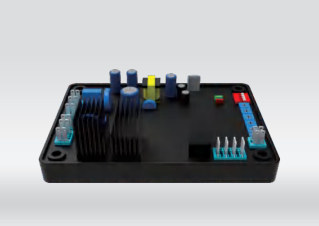
HVR1000
Digital Voltage Regulator
数字电压调节器



HVR620
Digital Voltage Regulator
数字电压调节器



HVR610
Digital Voltage Regulator
数字电压调节器



HVR410
Digital Voltage Regulator
数字电压调节器

Model/型号	HVR1000	HVR620	HVR610	HVR410
Main Functions 主要功能	It is used to adjust the field current of brushless AC synchronous generator. It has four excitation regulation modes: automatic voltage regulation (AVR), field current regulation (FCR), reactive power regulation (VAR), power factor regulation (PF). 用于调节无刷交流同步发电机励磁机的励磁电流。具有四种励磁调节模式：自动电压调节(AVR)、励磁电流调节(FCR)、无功功率调节(VAR)、功率因数调节(PF)。	It is used to adjust the field current of brushless AC synchronous generator, which can be applied to generators with the excitation system of PMG, AREP or SHUNT. The excitation regulation mode of the regulator is automatic voltage regulation (AVR). It has TYPE-C interface and CAN BUS interface. 用于调节无刷交流同步发电机励磁机的励磁电流，可应用于永磁励磁发电机PMG,辅助绕组励磁发电机AREP,自励磁发电机SHUNT。产品的励磁调节模式为自动电压调节,调节器具有TYPE-C接口和CAN BUS接口。	It is used to regulate the field current of the exciter for a brushless AC synchronous generator. 用于调节无刷交流同步发电机励磁机的励磁电流。	It is used to adjust the field current of brushless AC synchronous generator. Suitable for AC synchronous generators with excitation systems of AREP, SHUNT, etc. The excitation regulation mode of the regulator is automatic voltage regulation (AVR). It has TYPE-C interface. 用于调节无刷交流同步发电机励磁机的励磁电流，可应用于辅助绕组励磁发电机AREP，自励磁发电机SHUNT等,产品的励磁调节模式为自动电压调节，调节器具有TYPE-C接口。
AVR Mode,FCR Mode,VAR Mode,PF Mode AVR模式,FCR模式,VAR模式,PF模式	●	Only AVR mode/只有AVR模式	●	Only AVR mode/只有AVR模式
Generator Voltage Detectio 发电电压检测	●			
Generator Current Detection 发电电流检测	●		●	
Excitation Power/励磁电源	DC63V system:AC(100~139)V or DC125V DC63V励磁系统:AC(100~139)V或DC125V DC125V system: Single phase for AC(190-277)V, three phases for AC(190-260)V or DC250V DC125V励磁系统:AC(190~277)V 单相，三相AC(190~260)V或DC250V	DC63V system: AC(100~139)V or DC125V DC63V励磁系统:AC(100~139)V或DC125V DC125V system: AC(190~277)V or DC250V DC125V励磁系统:AC(190~277)V 或DC250V	DC63V system:AC(100~139)V or DC125V DC63V励磁系统:AC(100~139)V或DC125V DC125V system: Single phase for AC(190-277)V, three phases for AC(190-260)V or DC250V DC125V励磁系统:AC(190~277)V 单相，三相AC(190~260)V或DC250V	AC(100~264)V
Excitation Output Current 励磁输出电流	Continuous current: 7A for 70°C of room temperature, 10A for 55°C of room temperature Maximum short-time current: 10s, 11A for 70°C of room temperature, 14A for 55°C of room temperature 连续电流：7A 70°C 室温，10A 55°C 室温 短时最大电流：10s，11A 70°C 室温，14A 55°C 室温	Continuous current:70V DC 4A Maximum short-time current:10s，45V DC 7.5A 连续电流:70V DC 4A 短时最大电流:10s，45V DC 7.5A	Continuous current: 7A Maximum short-time current: 10s, 14A 连续电流:7A 短时最大电流:10s，14A	Continuous current:70V DC 4A Maximum short-time current:10s，45V DC 7.5A 连续电流:70V DC 4A 短时最大电流:10s，45V DC 7.5A
Analog Input/模拟量输入口	电压输入+电阻输入 Voltage input + Resistance input		2	电压输入+电阻输入 Voltage input + Resistance input
Digital Input/开关量输入口	4		2	
Relay Output/继电器输出口	2		1	
Rated Voltage Potentiometer 额定电压电位器		●		●
Communication Method/通信方式	USB(Type-C)/蓝牙/CAN	USB(Type-C)/CAN	USB	USB(Type-C)
Temperature Protection/温度保护		Winding+Heat Sink 绕组温度保护+散热片温度保护		Heat Sink 散热片温度保护
RTC &Event Log 实时时钟及历史记录	●	Only Event Log but no RTC 有历史记录无实时时钟	●	Only Event Log but no RTC 有历史记录无实时时钟
Running Data/运行数据	●		●	
Alarm Data/报警数据	●			
Case Dimensions 外形尺寸(mm)	239*154*71(L*W*H)	153*138*61(L*W*H)	239*154*71(L*W*H)	144*109*43(L*W*H)
Operating Temp 工作温度	(-40~+70)℃			

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GENSET CONTROLLER / 发电机组控制器



ALC736/736-4G
Hybrid Energy Lighting Tower Controller
混合能源灯塔机组控制器



ALC708/ALC704
Lighting Tower Controller
灯塔机组控制器



ALC404
Lighting Tower Controller
灯塔机组控制器

Model/型号	ALC736	ALC736-4G	ALC708	ALC704	ALC404
Main Functions 主要功能	It can realize integrated control of solar system, energy storage system, and diesel genset, lighting tower mast and lights control functions. 7 optional light on/off modes. Reducing the number of working lights on or the luminance of lights when SOC/fuel level falls below the set value. The ALC736-4G has a built-in cloud monitoring module. 集光伏、储能、柴发一体式控制，具有灯塔桅杆、云台控制功能，7种开/关灯模式可选，SOC/燃油位低于设定值减少灯开关数量或降低灯亮度等功能;ALC736-4G内置云监控模块。		Control for AC/DC lighting tower units; The ALC704 and ALC404 can control the on/off of 4 lights, while the ALC708 can control 8 lights, SMS and sunrise/sunset light on/off functions. The ALC404 is equipped with a CANBUS interface, sunrise/sunset light on/off functions , low-power mode, and a function to reduce the number of working lights when fuel level is low. 交、直流灯塔机组控制；ALC704和ALC404可控制4个灯的开关；ALC708可以控制8个灯的开关，具有短信和日出日落开关灯功能；ALC404具有CANBUS接口，日出日落开关灯功能，低功耗模式，燃油位低减少灯开关数量等功能。		
Display/显示器	LCD(132*64)				
Operation Panel 操作面板	Silicon Rubber/硅胶				
Language 控制器语言	Chinese＆English＆Others/中文＆英文＆其它		Chinese＆English/中文＆英文		
Digital Input 开关量输入口	10		12	8	5
Relay Output 继电器输出口	13		14	10	8
Number of Lights 灯数量	6		8	4	4
DC Lighting Tower Control 直流灯塔控制	●		●	●	●
AC Lighting Tower Control 交流灯塔控制	●		●	●	●
Scheduled Start/Stop 定时开关机	●		●	●	●
SMS Start/Stop 短信开关机		●	●		
Built-in Cloud Monitoring 内置云监控		●			
DPF Regenerate DPF再生	●				
Sunrise and Sunset Start/Stop 日出日落开关机	●				●
Remote Start/Stop 远程开关机	●		●	●	●
High-Precision Clock 高精度时钟	●		●	●	●
CANBUS(J1939)	●				●
Monitor Port/监控接口	RS485				
Programming Port/编程接口	RS485/USB(Type-C)		USB/RS485	USB	
DC Supply 直流工作电源范围	DC(8~35)V				
Case Dimensions 外形尺寸(mm)	209*166*45(L*W*H)		197*152*47(L*W*H)		135*110*44(L*W*H)
Panel Cutout 安装尺寸(mm)	186*141				116*90
Operating Temp. 工作温度	(-40~+70)℃		(-25~+70)℃		



HGM3020
Mini-genset Controller
小功率发电机组控制器



HGM401
Small Genset Controller
小型发电机组控制器



MGC100
Small Genset Controller
小型发电机组控制器



MGC120
Petrol Genset Controller
汽油发电机组控制器



MGC320
Small Genset Controller
小型发电机组控制器



GCU05
Small Genset Controller
直流机组控制器

Model/型号	HGM3020	HGM401	MGC100	MGC120	MGC320	GCU05D	GCU05M
Main Functions 主要功能	It features mains parameter monitoring and automatic mains/genset transfer control functions (AMF), which is suitable for automatic system consisting of one-way mains and one genset. 拥有市电电量监测和市电/发电自动切换控制功能(AMF)，用于一市一机构成的单机自动化系统。	LED display; Suitable for the display of data and fault protection in various small diesel and gasoline gensets. 数码管显示；用于各类小型柴油及汽油发电机组的数据显示及故障保护。	LED Display; Suitable for single genset. 数码管显示；适用于小型发电机组。	LED Display; Suitable for single genset automation or ATS switching of small genset. 数码管显示；适用于小型发电机组单机自动化或ATS切换。	It is used for automatic control of single electric generator, which can realize single-machine self-starting/AMF. 用于单台发电机组自动化控制，可实现单机自起动/AMF。	It is used for automatic control of single electric generator, which can realize single-machine self-starting/AMF. 采用【主控和显示(DTU)】分体式设计，具有低功耗模式、振动唤醒、功率-转速自动匹配策略、恒压限流双闭环控制策略，可用于基站直流油机智能化控制系统。	
Display/显示器	LCD(128x64)	7-segment LED LED数码管			LCD Graphic Display LCD图形显示器	LCD(132x64)	
Operation Panel 操作面板	单皮面膜	PET		Silicon Rubber/硅胶	PET		
Language 控制器语言	Chinese&English&Others 中文&英文&其它					Chinese 中文	
Digital Input 开关量输入口	3	1	4	2	3		7
Relay Output 继电器输出口	5	2	2+1 Transistor Output 2+1个晶体管输出	3+2 Transistor Output 3+2个晶体管输出	4		1
Analogue Input 模拟量输入口	3	2		1	2		2
AMF/市电检测	●			●			●
AC System/交流制式	1P2W/2P3W 3P3W/3P4W	1P2W/2P3W/3P4W	1P2W/2P3W 3P3W/3P4W	1P2W	1P2W/2P3W/3P3W/3P4W		3P3W
AC Voltage/交流电压范围	AC(15~360)V(ph-N) AC(30~620)V(ph-ph)		AC(30~360)V(ph-N)		AC(15~360)V(ph-N) 需区分线制 AC(15~360)V(ph-N) Vary with AC systems		
Amp Detecting & Display 电流检测及显示	●				●		
Monitor Port/监控接口	RS485					TTL	
Programming Port/ 编程接口	RS485	USB(Type-C)	LINK		RS485	TTL	
DC Supply 直流工作电源范围	DC(8~35)V	DC(9~16)V	DC(9~18)V		DC(8~35)V	DC(36~58)V	
Built-in SMD SIM Card 内置贴片式SIM卡						●	
Built-in Li-ion Battery 内置锂电池						● (10000mAh)	
Remote Configuration/Upgrade 远程配置/升级						●	
Case Dimensions 外形尺寸(mm)	126*106*46.5(L*W*H)	96*96*34(L*W*H)	105.8*61*36.6 (L*W*H)	95*86*46.5(L*W*H)	126*106*46.5(L*W*H)	135*80*46 (L*W*H)	191*160*67 (L*W*H)
Panel Cutout 安装尺寸(mm)	111*91	90*90	92*44	78*66	111*91	103*68	
Operating Temp. 工作温度	(-25~+70)℃					(-25~+55)℃	