

# HGM7100N系列 发电机组控制器

## GENSET CONTROLLER



HGM7110N



HGM7120N

### 简介

HGM7100N 系列发电机组控制器适用于单台发电机组的自动化控制，AMF 功能可选，适用于非电喷机组，可通过 ETHERNET 接口实现云监控能。

### 特点

- 通过RS485或网口实现两台机组循环开机功能
- RS485通讯接口，支持MODBUS协议
- AMF功能(HGM7120N)
- 支持语言包写入，内置多种语言
- 支持高压机组
- 黑匣子功能，可记录停机前1分钟的详细数据
- 定时开停机设置和维护功能
- 3个选择性配置，可通过输入口切换
- 分相有功功率、总有功功率显示
- 过压/欠压、过频/欠频、过流、过功、逆功率、缺相、逆相序保护功能
- 可用于水泵机组，也可做指示仪表使用

### Overview

It is used for the automatic control of single genset, which can realize AMF function (optional). The controller is suitable for non-ECU engines, and it supports cloud monitoring function via the ETHERNET port.

### Features

- Cycle start function of two gensets can be realized via RS485 or ETHERNET port
- RS485 communication port, which supports MODBUS protocol
- AMF function (HGM7120N)
- Support language pack loading, multiple built-in languages
- Support high voltage genset
- Black box function allows it to record detailed data from the one minute prior to shutdown
- Scheduled start/stop setting and maintenance function
- 3 alternative configurations, which can be switched via input ports
- Active power and total active power display for each phase
- With over/under voltage, over/under frequency, over current, over power, reverse power, loss of phase, phase sequence wrong protection functions
- Compatible with pump unit, and working as a indicating instrument

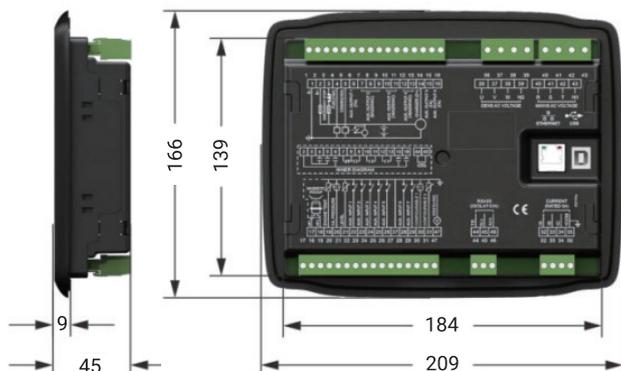


## ● 技术参数 Technical Parameters

|                                 |   |  |
|---------------------------------|---|--|
| 直流供电<br>DC Power                | DC(8~35)V连续供电<br>功耗: <4W(待机: ≤2W)   | DC(8~35)V continuous power supply<br>Power Consumption: <4W(Standby mode: ≤2W)   |
| 转速传感器电压<br>Speed Sensor Voltage | 1.0V至24V (有效值)  | 1.0-24V (RMS)  |
| 电压和电流<br>Voltage & Current      | 三相四线<br>AC(15~360)V (ph-N)<br>三相三线<br>AC(30~620)V (ph-ph)<br>单相二线<br>AC(15~360)V (ph-N)<br>二相三线<br>AC(15~360)V (ph-N)<br>额定: 5A | 3P4W<br>AC(15~360)V (ph-N)<br>3P3W<br>AC(30~620)V (ph-ph)<br>1P2W<br>AC(15~360)V (ph-N)<br>2P3W<br>AC(15~360)V (ph-N)<br>Rated: 5A           |
| 防护等级<br>IP Rating               | 前面板: IP65   | Front panel: IP65  |
| 绝缘强度<br>Dielectric Strength     | 在交流高压端子与低压端子之间施加AC2.2kV电压,<br>1min内漏电流不大于3mA  | Apply voltage of 2.2kVAC between AC high voltage terminal and low voltage terminal, and the leakage current is not more than 3mA in 1 minute |
| 尺寸<br>Dimensions                | 外形尺寸: 209 × 166 × 45mm<br>开孔尺寸: 186 × 141mm   | Overall Dimensions: 209 × 166 × 45mm<br>Panel Cutout: 186 × 141mm  |
| 环境<br>Environment               | 工作温度: (-25~+70)°C<br>工作湿度: 相对湿度(20~93)%RH<br>贮存温度: (-25~+70)°C  | Working Temperature: (-25~+70)°C<br>Working Humidity: (20~93)%RH<br>Storage Temperature: (-25~+70)°C   |

## ● 尺寸 Dimensions

单位(Unit): mm



## ● 端口 Ports

|                                       |                                      |                                     |                                  |  |                           |
|---------------------------------------|--------------------------------------|-------------------------------------|----------------------------------|--|---------------------------|
| 直流工作电源<br>和急停<br>DC Power<br>& E-Stop | 开关量输出(8)<br>Digital<br>Output (8)    | D+                                  | 发电电压采样<br>Gen. Voltage<br>Sample | 市电电压采样<br>(HGM7120N)<br>Mains Voltage Sample |                           |
|                                       |                                      |                                     | ETHERNET                         | USB  |                           |
| 转速<br>Speed                           | 开关量<br>输入(7)<br>Digital<br>Input (7) | 模拟量<br>输入(5)<br>Analog<br>Input (5) | DC+5V                            | RS485  | 电流采样<br>Current<br>Sample |