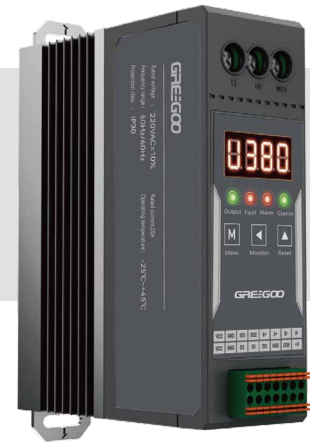


Single Phase AC Power Controller

AC 220V/380V $I_{MAX}20A/40A$

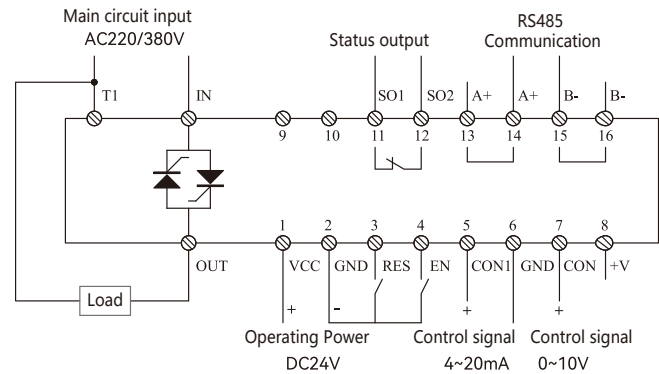
GMS20CA Series



Technical Advantages

- Constant voltage/current/power
- Digital Phase-Shift control, isolated output voltage/current detection, MODBUS-RTU communication
- 0-10V/4-20mA switchable control signal
- Overvoltage, overcurrent, and overtemperature protection
- Load open-circuit detection, load lifespan monitoring and AC input loss detection
- Isolated fault alarm output
- Plug-in control terminals with spring-clamp wiring for easy troubleshooting and equipment replacement

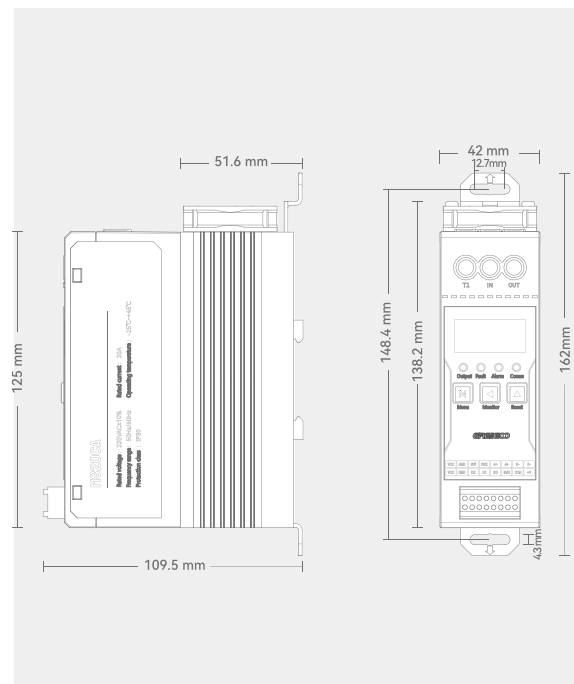
Circuit Diagram



Technical Parameters

Power supply	Voltage: 24V, power: $\leq 3W$
Control signal	0-10V/4-20mA analog
Main circuit input voltage	220/380VAC
Output current	20A/40A
Operating mode	Constant voltage/current/power
Operating frequency	50/60Hz auto-adaptive
Output voltage unbalance	$<2\%$
Voltage fluctuation	$<0.5\%$
Peak withstand voltage (Forward/Reverse)	$\geq 1400V$
di/dt	100A/ μS
dv/dt	500V/ μS

Dimensions and Installation



Single Phase AC Voltage Regulator / Power Controller

AC 220V $I_{MAX}40A$

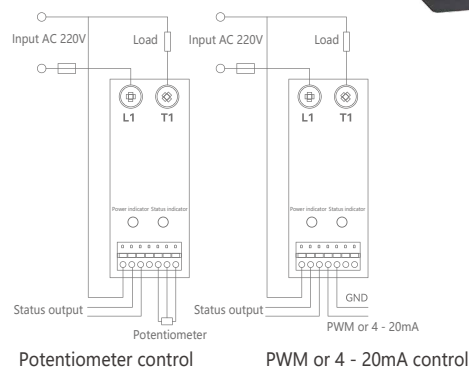
GMS40PS22/GMS40PR22



Technical Advantages

- Built-in power supply with RC snubber circuit
- Finger-safe design
- Supports 0-10VDC, PWM, and 4-20mA control
- Load open-circuit alarm, thermal protection and Isolated fault output
- Plug-in terminals with spring-clamp connections

Circuit Diagram



Technical Parameters

Control Parameters	Input voltage control	0-10VDC
	Input frequency duty cycle control	PWM frequency: 1K-10KHz
	Input current control (optional)	4-20mA
	Potentiometer control	10KΩ
Status Outputs	Supply voltage	<50V
	Output current	<1.0A
	On-state resistance	<2Ω
I/O Parameters	Rated operating voltage	220VAC
	Grid frequency	50Hz/60Hz
	Minimum load current	100mA
	Off-state leakage current	<10mA
	Off-state voltage rise rate	500V/μS
	On-state current critical rise rate	100A/μS
	Regulation response Time	<10ms
Other Parameters	Dielectric withstand voltage	≥2000VAC
	Operating ambient temperature	-25°C-45°C

Dimensions and Installation

