



TECHNICAL MANUAL

8A

Automatic Voltage Regulator (AVR)

<https://gensetpart.com/generator-avr/>

COMPATIBLE REPLACEMENT PART

POPULACE has manufactured generator electronic parts in Xiamen, China since 2006. 1000+ SKUs in stock, 1-5 day dispatch, every unit burn-in tested before shipment.

Document contents

- Specification and technical characteristics
- Terminal assignment and wiring diagram
- Installation, adjustment and settings
- Troubleshooting table

This document is supplied by POPULACE Electronic Co., Ltd. as an installation and operating guide for a POPULACE compatible replacement part. It is not an original equipment manufacturer (OEM) document. Any brand names or part numbers mentioned are for cross-reference and identification purposes only and do not indicate affiliation with, or endorsement by, the respective manufacturers.

Why source this part from POPULACE

- Factory in Xiamen, China - operating since 2006 (20 years)
- Over 1000 SKUs held in stock; dispatch within 1-5 days
- Every unit burn-in tested at 65 C before shipment
- CE and ISO 9001 production system; full batch traceability
- Free technical support for wiring, settings and fault diagnosis

Get a quote / technical support

Web: <https://gensetpart.com>
Email: grace@genpart.cn
Phone / WhatsApp: +86-138-5038-3550

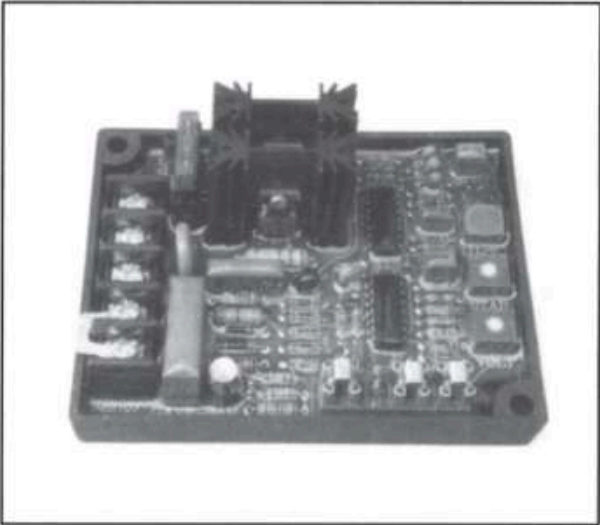
No.702 Xiniya Building, No.90 Anling Second Road, XIAMEN, FUJIAN, China

GAVR-8A

Universal 8 Amp 1/2 Wave Self Excited
Dip-Switch Programmable Automatic
Voltage Regulator

Features

- <±1% Regulation
- 110/220/400 VAC Programmable Input
- Rugged Compact Design
- With Under Frequency Protection
- Soft Start Voltage Ramping
- EMI Suppression
- Built-in High Capacity 8Amp Fuse



Specifications

Sensing Input	Voltage	110/220/400VAC, 1 phase 2 wire	Voltage Build-up	Residual volts at AVR terminal > 5VAC
Power Input	Voltage	100~260VAC, 1 phase 2 wire	External Volts Adjustment	± 7% with 1K Ω 1 watt trimmer
Output	Voltage	Max. 90VDC @ 240VAC input	Soft Start Ramp Time	2sec.
	Current	Continuous 3A Intermittent 5A for 10SEE.	Unit Power Dissipation	Max. 8Watt
	Resistance	Min. 15 Ω Max. 100 Ω	EMI Suppression	Internal Electromagnetic Interference Filtering
			Thermal Drift	0.03% per $^{\circ}\text{C}$ change in AVR ambient
			Under Frequency Protection	60Hz system presets knee point at 55Hz
			(Factory Settings)	50Hz system presets knee point at 45Hz

Volts Regulation < ± 1% (with 4% engine governing)

Environment

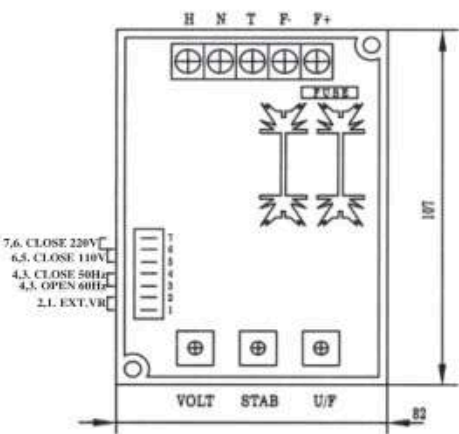
Vibration 3G @ 100~2K Hz

Relative Humidity < 95%

Operating Temperature -40~65 $^{\circ}\text{C}$

Storage Temperature -40~85 $^{\circ}\text{C}$

Mechanical Specifications



AVR Controls

VOLTS Voltage Adjustment
STAB Stability Adjustment
U/F TO Set the U/F Knee Point
*U/F: Under Frequency Protection

Physical Specifications

Dimensions 107.0(L) 82.0(W) 50.0(H) mm

