



TECHNICAL MANUAL

GAVR-15A

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

209*290mm 正面

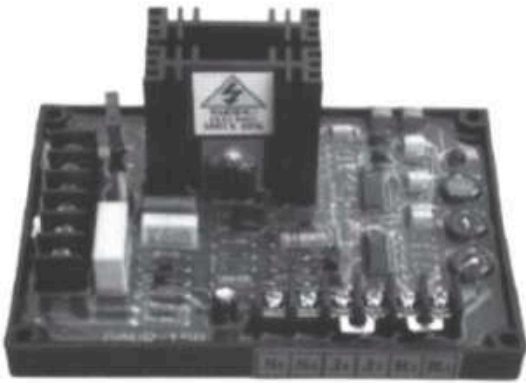
反面

GAVR-15A / GAVR-15B

Universal 15 Amp 1/2 Wave Self Excited
Dip-Switch Programmable Automatic
Voltage Regulator

Features

- <±0.5% Regulation
- 220/400 VAC Programmable Input
- Rugged Compact Design
- With Under Frequency Protection
- Soft Start Voltage Ramping
- EMI Suppression
- Built-in High Capacity 15Amp Fuse



Specifications

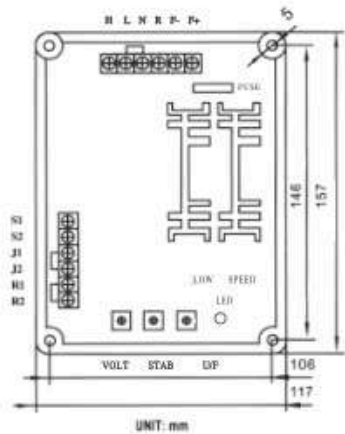
Sensing Input	Voltage 220/400VAC, 1phase 2wire	Voltage Build-up	Residual volts at AVR terminal > 5VAC
Power Input	Voltage 180~240VAC, 1phase 2wire	External Volts Adjustment	± 7% with 1KΩ 1watt trimmer
Output	Voltage Max. 90VDC @ 240VAC input	Soft Start Ramp Time	3sec.
	Current Continuous 6A	Unit Power Dissipation	Max. 8Watt
	Intermittent 12A for 10SEE.	EMI Suppression	Internal Electromagnetic Interference Filtering
	Resistance Min. 10Ω Max. 100Ω	Thermal Drift	0.05% per °C change in AVR ambient
		Under Frequency Protection	60Hz system presets knee point at 57Hz
		(Factory Settings)	50Hz system presets knee point at 47Hz

Volts Regulation < ± 0.5% (with 4% engine governing)

Environment

Vibration 3G @ 100~2K Hz	Relative Humidity < 95%
Operating Temperature -40~65 °C	Storage Temperature -40~85 °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 157.0(L) 117.0(W) 70.0(H) mm

