

EA04A

Self Excited Automatic Voltage Regulator

Compatible with Basler* VR63-4 & VR63-4A regulator

*All manufacturer names, numbers, symbols and descriptions are used for reference purpose only and do not imply that any part is the product of these manufacturer.

Features

- Voltage Regulation $< \pm 1\%$
- For Use in 50/60 Hz Brushless Generators
- Optional 120/240 VAC Sensing Voltage Switch*¹
- Under Frequency & Over Excitation Protection
- EMI Suppression
- Built-in High Breaking Capacity Fuse*¹



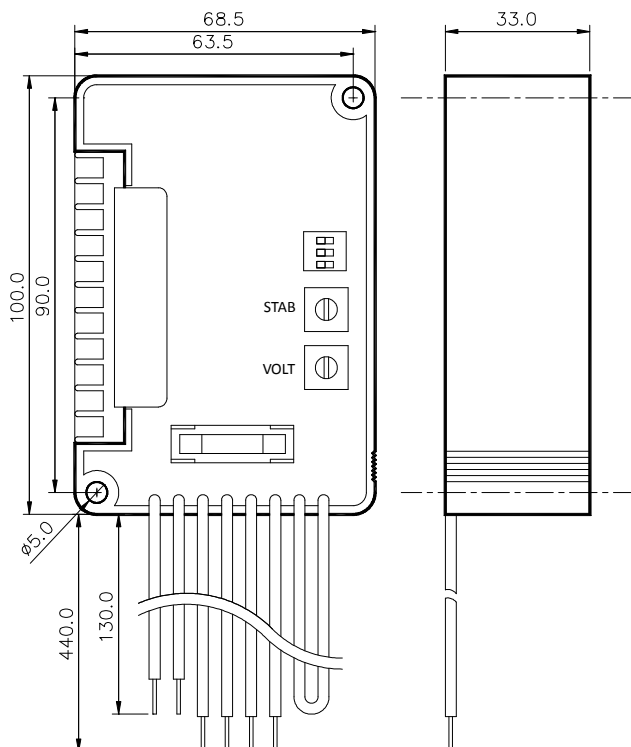
Specifications

Sensing & Power Input	Voltage 120 (90~132) / 240 (171~264) VAC DIP switch selectable Frequency 50/60 Hz selectable	External Volts Adjustment	$\pm 15\%$ with 1 K Ω 1 watt trimmer
Output	Voltage Max. 32 VDC @ 120 VAC input Max. 63 VDC @ 240 VAC input Current Continuous 4A, Intermittent 7A for 60 sec. Resistance Min. 15 Ω Max. 100 Ω	Unit Power Dissipation	Max. 8 watt
Volts Regulation	$< \pm 1\%$ (with 4% engine governing)	EMI Suppression	Internal electromagnetic interference filtering
Voltage Build-up	Residual volts at AVR terminal > 5 VAC	Thermal Drift	0.05% per $^{\circ}\text{C}$ change in AVR ambient
		Under Frequency	60 Hz system presets knee point at 55 Hz
		Protection (Factory Setting)	50 Hz system presets knee point at 45 Hz
		Over Excitation	Field volts shut down after a time delay if exciter field volts exceed 100 ± 5 VDC
		Shutdown	

Environment

Operation Temperature	-40~60 $^{\circ}\text{C}$	Relative Humidity	Maximum 90%
Storage Temperature	-40~85 $^{\circ}\text{C}$	Vibration	1.5G @ 5~30 Hz / 5.0G @ 30~500 Hz

Mechanical Specifications (Unit : mm)



AVR Control Function

VOLT	Voltage Adjustment
STAB	Stability Adjustment

Physical Specification

Dimensions	100.0 (L) x 68.5 (W) x 33.0 (H) mm
Weight	230 g $\pm 2\%$

*1 Basler Model VR63-4A only fits 120 VAC Generators, and Basler Model VR63-4 only fits 240 VAC Generators respectively, and both original Basler models do not have fuse protection.