EA03A

Generator Automatic Voltage Regulator
Operation Manual

Self Excited Automatic Voltage Regulator
Designed For Gasoline Generators

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SECTION 1 : SUMMARY

Sensing Input

Voltage 18 – 20 Vac, 1 phase 2 wires

Power Input

Voltage 60 – 90 Vac, 1 phase 2 wires

Excitation Output

Voltage	5 – 85 Vdc
Current	Continuous 3A
	Intermittent 4A for 60 secs.
Resistance	Min. 25 ohms

Voltage Regulation

Less than +/- 2% (with 4% engine governing)

Build Up Voltage

5 Vac residual volts at power input terminal

Voltage Adjust Range

110 Vac +/- 15%

Voltage Thermal Drift

Less than 5% at temperature range -40 to +70 ˚C

Environment

Operating Temperature	-40 to +60 ˚C
Storage Temperature	-40 to +85 ˚C
Relative Humidity	Max. 95%
Vibration	1.5 Gs @ 5 – 30 Hz
	5.0 Gs @ 30 – 500 Hz

Dimensions

113.0 (L) x 41.0 (W) x 32.0 (H) mm

Weight

127 g +/- 2%

SECTION 2 : OUTLINE / SIZE REFERENCE

- Stop engine
- Install AVR to generator field (Show as Figure 1)

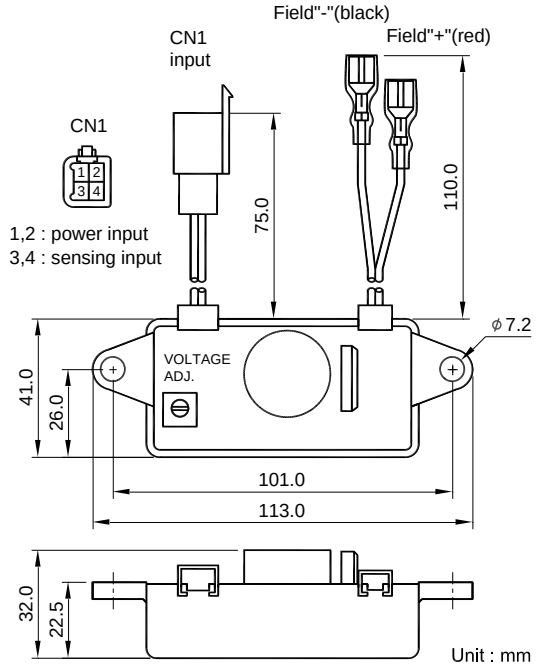

Figure 1

ATTENTION

1. **AVR can be mounted directly on the engine, genset, switchgear, control panel, or any position that will not affect operation. For dimension reference please see Figure 1.**
2. **All voltage readings should be taken with an average-reading voltmeter. Megger or high-potential test equipment must not be used. Use of such equipment could damage the AVR.**
3. **Improper setting of under-frequency protection could cause the output voltage of the unit to drop or become unstable under with changes in load. Avoid making any changes to the U/F setting unless necessary.**

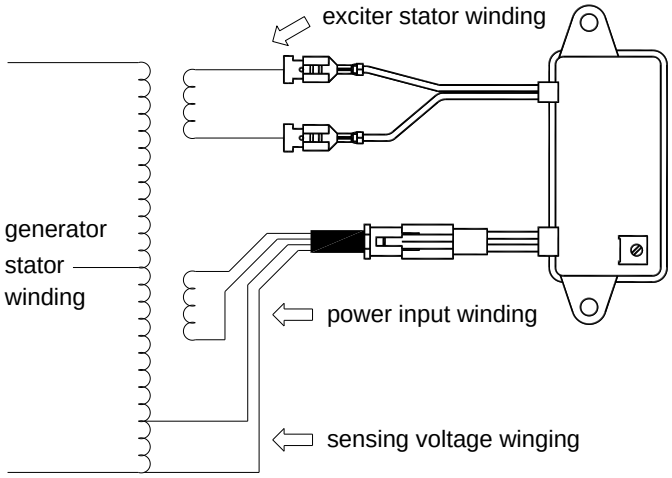

Figure 2

SECTION 3 : APPLICATION MODE

BRAND	PART NUMBER
ELEPAQ	PH-1800, PH-2600
HONDA	EP-1800, EP-2500
KAWSAKI	GA-2300、GA-2900、GE-1400、GE-2200
KUBOTA Low Boy	GL6500S
MARUYAMA	ME-1800, ME-2600
SUZUKI	SV-1400L, SV-1400LD, SV-2200L, SV-2200LD
SAWAFUJI	SH-1800, SH-2600
YAMAHA	EDL6500S

SECTION 4 : TRUBLESHOOTING

SYMPTOM	POSSIBLE CAUSES	SOLUTIONS
Voltage does not build up	F+, F- not connected	Connect F+, F-
	CN1 not connected	Connect CN1
Out voltage high	Voltage over AC130V can not adjusted	Defective regulator

※ Appearance and specifications of products are subject to change for improvement without prior notice.