

EA16

Universal 16 Amp 1/2 Wave Self Excited Automatic Voltage Regulator Can Be Used In Parallel Operation

Compatible with Mecc Alte* UVR6, Marelli Motori*

M40FA640A-MARK I and Caterpillar* AVR

*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 $< \pm 0.5\%$
- Suitable For Brushless Type Generator Sensing Input 170~510 VAC
- Can Be Used In Parallel Operation
- 16 ADC Current Output
- Suitable Frequency 50/60 Hz
- Soft Start Voltage Ramping
- Load CT Current Compensation, Analogue Voltage Input



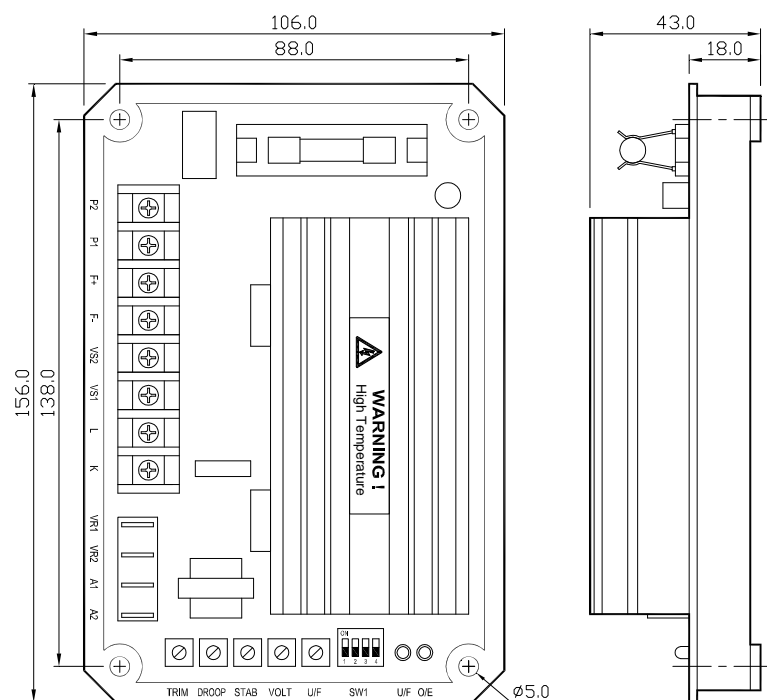
Specifications

Sensing Input	Voltage 170~510 VAC single phase 2 wire Frequency 50/60 Hz	Voltage Build-up	Residual volts at AVR terminal > 5 VAC
Power Input	Voltage 60~300 VAC single phase 2 wire	External Volts Adjustment	$\pm 5\%$ with 2 K Ω 1 watt trimmer
Output	Voltage Max. 90 VDC @ 240 VAC input Current Continuous 16A Max. Intermittent 20A for 10 sec. Resistance Min. 6 Ω @ 35 VDC	Unit Power Dissipation	Max. 10 watt
Volts Regulation	$< \pm 0.5\%$ (with 4% engine governing)	Thermal Drift	0.03% per $^{\circ}\text{C}$ change in AVR ambient
		Under Frequency Protection	55 Hz @ 60 Hz / 45 Hz @ 55 Hz (Adjustable)
		CT Current Compensation Input	1A or 5A (Selectable)
		Analogue Input	± 5 VDC $\pm 10\%$ @ ± 3 VDC

Environment

Operation Temperature	-40~70 $^{\circ}\text{C}$	Relative Humidity	Maximum 95%
Storage Temperature	-40~85 $^{\circ}\text{C}$	Vibration	3.3G @ 100~2 KHz

Mechanical Specifications (Unit : mm)



AVR Control Function

VOLT	Voltage Adjustment
STAB	Stability Adjustment
U/F*1	To Set the U/F Knee Point
DROOP	To Adjust Droop
TRIM	Analogue Input Adjustment

*1 U/F : Under Frequency protection

Physical Specification

Dimensions	156.0 (L) x 106.0 (W) x 43.0 (H) mm
Weight	450 g $\pm 2\%$