

# EA230

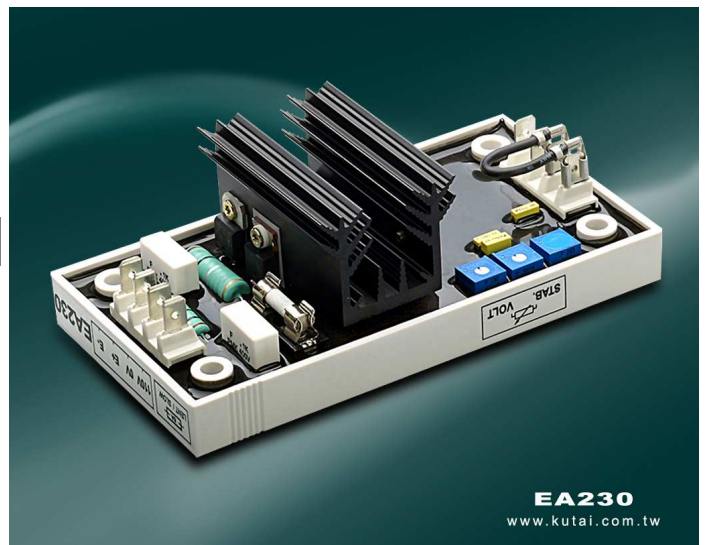
## Self Excited Automatic Voltage Regulator

Compatible with Leroy Somer\* R230 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  $< \pm 1\%$
- Economical Compact design
- For Use In 50/60 Hz Brushless Generators
- EMI Suppression
- Under Frequency Protection
- Over Excitation Current Shutdown
- 120 VAC Optional



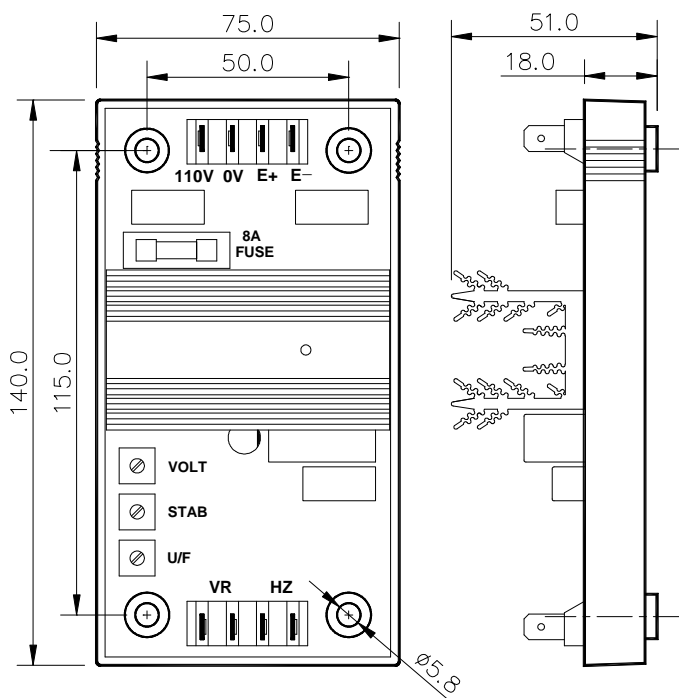
### Specifications

<b>Input</b>	Voltage	120 (90~140) VAC 1 phase 2 wire	<b>Voltage Build-up</b>	Residual volts at AVR terminal $> 5$ VAC
	Frequency	45~65 Hz	<b>External Volts Adjustment</b>	$\pm 5\%$ with 1 K $\Omega$ 1/2 watt trimmer
<b>Output</b>	Voltage	Max.100 VDC @ 120 VAC input	<b>Unit Power Dissipation</b>	Max. 6 watt
	Current	Continuous 8A , Intermittent 10A for 10 sec.	<b>Thermal Drift</b>	0.03% per $^{\circ}\text{C}$ change in AVR ambient
	Resistance	Min. 15 $\Omega$	<b>EMI Suppression</b>	Internal electromagnetic interference filtering
<b>Voltage Regulation</b>		$< \pm 1\%$ (within 4% engine governing)	<b>Under Frequency Protection</b>	Knee point 47/57 Hz (Adjustable)

### Environment

<b>Operation Temperature</b>	-40~60 $^{\circ}\text{C}$	<b>Relative Humidity</b>	Maximum 95%
<b>Storage Temperature</b>	-40~85 $^{\circ}\text{C}$	<b>Vibration</b>	1.5G @ 5~30 Hz / 5.0G @ 30~500 Hz

### Mechanical Specifications (Unit : mm)



### AVR Control Function

<b>VOLT</b>	Voltage Adjustment
<b>STAB</b>	Stability Adjustment
<b>U/F*1</b>	To Set the U/F Knee Point

\*1 U/F : Under Frequency protection

### Physical Specification

<b>Dimensions</b>	140.0 (L) x 75.0 (W) x 51.0 (H) mm
<b>Weight</b>	310 g $\pm 2\%$
<b>Shock</b>	Withstands up to 20G in each X, Y, Z axes

