

# EA440-T

## Self Excited Automatic Voltage Regulator

Compatible with Newage\* Stamford SX440 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  $< \pm 1\%$
- Can Be Use In Parallel Operation
- Wider Sensing Input 90~520 VAC
- 50/60 Hz Selectable By Jumper
- Sensing Voltage Loss Protection
- Soft Start Voltage Ramping
- Under Frequency LED Indicator
- Can Be Set to Suit Different Power Generator by Jumper



**EA440-T**  
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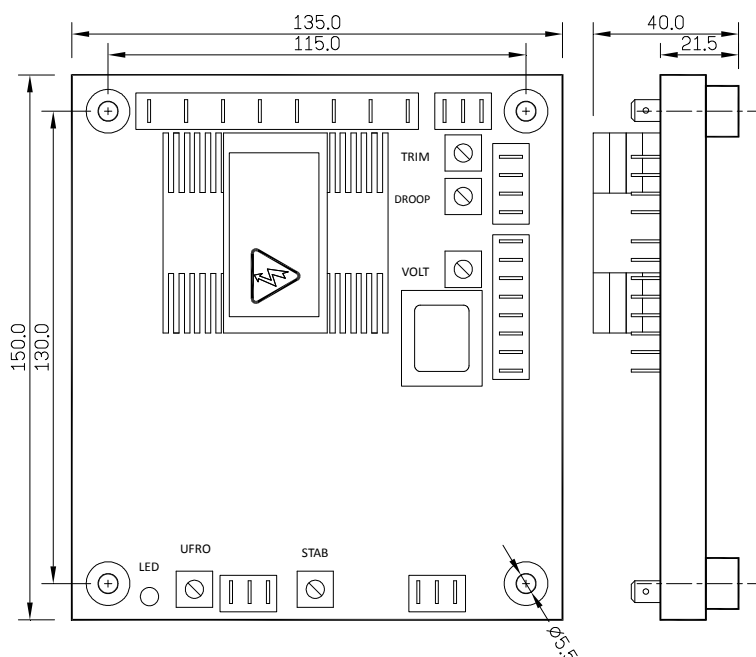
### Specifications

<b>Sensing Input</b>	Terminal 0-110V = 90~150V Terminal 0-220V = 175~260V Terminal 0-380V = 350~520V	<b>External Volts Adjustment</b>	$\pm 8\%$ with 1 K $\Omega$ 1 watt trimmer
<b>Power Input</b>	Voltage 100~264 VAC single phase	<b>Unit Power Dissipation</b>	Max. 12 watt
<b>Output</b>	Voltage Max. 90 VDC @ 207 VAC Current Continuous 4A Intermittent 10A for 10 sec. Resistance Min. 15 $\Omega$	<b>Thermal Drift</b>	0.05% per $^{\circ}\text{C}$ change in AVR ambient
<b>Voltage Regulation</b>	$< \pm 1\%$ (with 4% engine governing)	<b>Under Frequency Protection</b>	U/F potentiometer 45~60 Hz
<b>Voltage Build-up</b>	Residual volts at AVR terminal $> 5$ VAC	<b>Analogue Input</b>	Max. input $\pm 5$ VDC Sensitivity 1V for 5% generator volts Input resistance 1 K $\Omega$
		<b>DROOP Input</b>	Burden 10 $\Omega$ Max. sensitivity 0.07A for 5% droop (PF=0) Max. input 0.33A

### 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 KHz / 5.0G @ 30~500 Hz

### Mechanical Specifications (Unit : mm)



### AVR Control Function

<b>VOLT</b>	Voltage Adjustment
<b>STAB</b>	Stability Adjustment
<b>UFRO</b>	UFRO Knee Point Set
<b>DROOP</b>	Droop Adjustment
<b>TRIM</b>	Analogue Input Adjustment
<b>DIP</b>	U/V Rate Set

### Physical Specification

<b>Dimensions</b>	150.0 (L) x 135.0 (W) x 40.0 (H) mm
<b>Weight</b>	489 g $\pm 2\%$