

# EA480

## Single Phase sensing Automatic Voltage Regulator

For use with self-excited, brushless generators

Compatible with Newage Stamford AS480 AVR

### Features

- Rated frequency 50/60 Hz
- Under frequency protection and soft start voltage ramping
- EMI suppression
- Voltage regulation less than +/-0.5%
- Over excitation protection
- Quadrature Droop Input for parallel operation
- Supports connection with Stamford Excitation Boost System (EBS)

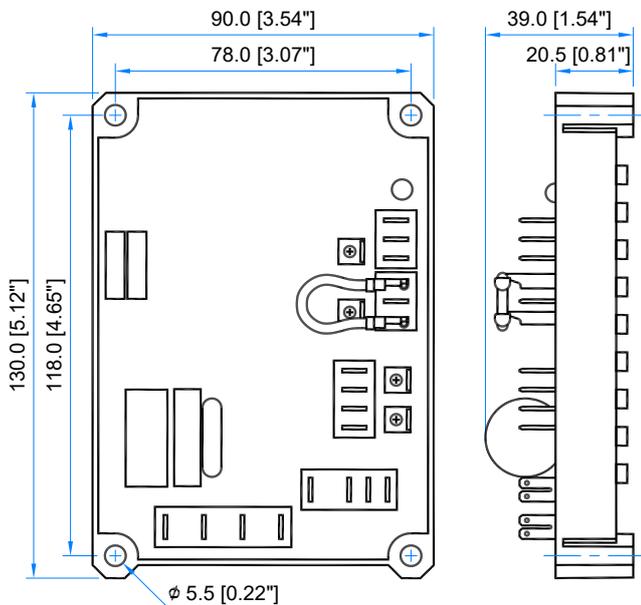


**EA480**  
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### Specifications

<b>Sensing / Power Input</b>	Voltage 60 to 300 Vac 1 phase 2 wire	<b>External Volts Adjustment</b>	Max. +/-10% @ 1K ohm 1 watt potentiometer
<b>(Average Reading)</b>	Frequency 50/60 Hz (Jumper Selected)		Use 7.5K ohms resistor to enable 110Vac sensing
<b>Excitation Output</b>	110V 1 phase Continuous 31 Vdc 5A	<b>Volts Regulation</b>	Less than +/-0.5% (with 4% engine governing)
	Max. 45 Vdc 7.5A for 10 seconds	<b>Typical System Response</b>	Less than 20 milliseconds
	220V 1 phase Continuous 63 Vdc 5A	<b>Static Power Dissipation</b>	Max. 4 watts
	Max. 90 Vdc 7.5A for 10 seconds	<b>Quadrature Droop Input</b>	Input resistance 10 ohms
<b>Note: If AVR is mounted externally to alternator continuous current should be reduced by 20%</b>		<b>Sensitivity</b>	0.07A for 5% voltage drop (PF=0)
	Resistance Min. 6 ohms Max. 100 ohms @ 110V	<b>Max. input</b>	0.33A
	Min. 13 ohms Max. 100 ohms @ 220V	<b>Over Excitation Protection</b>	Excitation voltage 70 Vdc +/-10%
			Time delay 10 to 15 seconds
<b>Build Up Voltage</b>	4Vac 25Hz residual volts at power input terminal	<b>Voltage Thermal Drift</b>	Less than 3% at -40 to +70 °C

### Dimensions



Unit : mm [inch]

### Environment

<b>Operating Temperature</b>	-40 to +60 °C
<b>Storage Temperature</b>	-40 to +85 °C
<b>Relative Humidity</b>	Max. 95%
<b>Vibration</b>	5.5 Gs @ 60 Hz

### Physical Specifications

<b>Dimensions</b>	130.0 (L) x 90.0 (W) x 39.0 (H) mm 5.12 (L) x 3.54 (W) x 1.54 (H) inch
<b>Weight</b>	260 g +/-2% 0.573 lb +/-2%

### AVR Accessories

<b>Jumper Terminals</b>	x 1
<b>M5L35 Screw</b>	x 2
<b>Adjustment Tool</b>	x 1

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



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