

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)

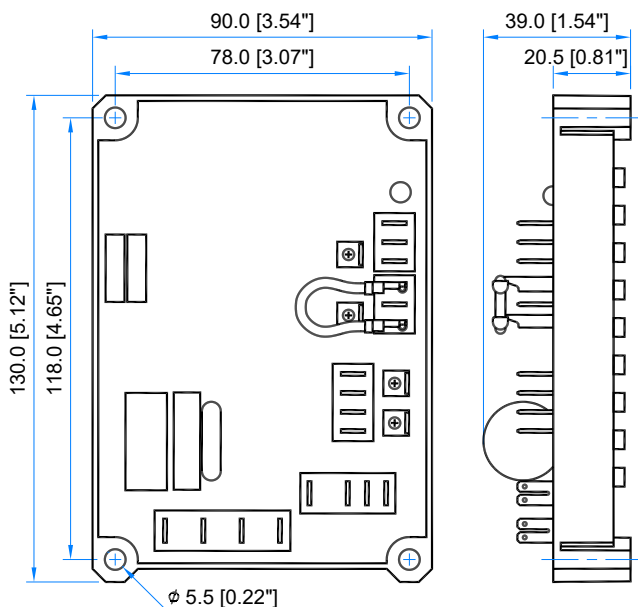


EA480
www.kutai.com.tw

Specifications

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

Dimensions



Unit : mm [inch]

Environment

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

Physical Specifications

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

AVR Accessories

Jumper Terminals	x 1
M5L35 Screw	x 2
Adjustment Tool	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.



KUTAI ELECTRONICS INDUSTRY CO., LTD.
 TEL : +886-7-8121771 FAX : +886-7-8121775 Website : www.kutai.com.tw
 Headquarters : No.3, Ln. 201, Qianfu St., Qianzhen Dist., Kaohsiung City 806037, Taiwan

