

ADVR-07AF

Analog / Digital, Single-phase Sensing Automatic Voltage Regulator

For use in self-excited, brushless generators

Features

- Digital Voltage Sensing and Under Frequency Protection circuits improve thermal drift performance
- Selectable Full-wave/Half-wave Output
- Soft Start Voltage Build-up
- Over Excitation Voltage protection
- Built-in EMI suppression circuit
- High capacity fuse protection



ADVR-07AF
www.kutai.com.tw

Specifications

Sensing / Power Input	Voltage 60 to 300 Vac Single Phase	UFRO Thermal Drift	Less than +/-0.1 Hz from -40 to +70 °C
(Average Reading)	Frequency 50 / 60 Hz	Static Power Dissipation	Less than 4 watts
Adjustment Range	90 to 135 Vac or 175 to 270 Vac DIP switch setting	External Volts Adjustment	Max. +/-10% @ 1 kΩ 1 watt potentiometer
Build Up Voltage	Residual voltage >5 Vac @ >25 Hz	Environment	Operating Temperature -40 to +70 °C
Volts Regulation	Less than +/-0.5% (with 4% engine governing)		Storage Temperature -40 to +85 °C
Response Time	Less than 20 milliseconds		Relative Humidity Max. 95%
Voltage Thermal Drift	Less than 3% from -40 to +70 °C		Vibration 5.5 Gs @ 60 Hz

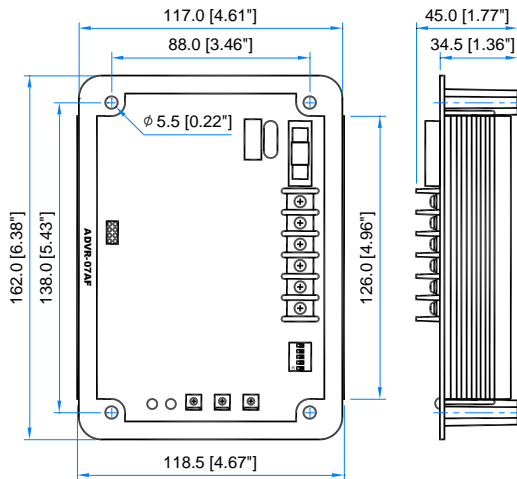
Excitation Output, Resistance and DIP SW Setting

	Input Voltage	DIP SW1	DIP SW2	Excitation Output *1	Exciter Resistance	O/E Voltage Protection *2
Half Wave	110 Vac	OFF	ON	Continuous 31 Vdc 5A Max. 45 Vdc 7A 10 Secs.	Min. 7 ohms Max. 100 ohms	Excitation Voltage 35V +/-10%
	220 Vac	ON	ON	Continuous 63 Vdc 5A Max. 90 Vdc 7A 10 Secs.	Max. 13 ohms Max. 100 ohms	Excitation Voltage 70V +/-10%
Full Wave	110 Vac	OFF	OFF	Continuous 63 Vdc 7A Max. 90 Vdc 10A 10 Secs.	Min. 9 ohms Max. 100 ohms	Excitation Voltage 70V +/-10%
	220 Vac	ON	OFF	Continuous 125 Vdc 7A Max. 180 Vdc 10A 10 Secs.	Min. 18 ohms Max. 100 ohms	Excitation Voltage 140V +/-10%

*1 Fuse specification 5 x 20 mm 8A slow blow.

*2 Over Excitation (O/E) output will decrease after a 10 seconds delay. This function can be turned OFF.

Dimensions



Unit : mm [inch]

Physical Specifications

Dimensions	162.0 (L) x 118.5 (W) x 45.0 (H) mm
	6.38 (L) x 4.67 (W) x 1.77 (H) inch
Weight	710 g +/-2%
	1.57 lb +/-2%

Accessories

Jumper Wire	x 1
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