

# CF-12A

Universal 7 Amp 1/2 Wave Self Excited  
Dip-Switch Programmable Automatic  
Voltage Regulator

## Features

- $< \pm 1\%$  Regulation
- 220/440 VAC Programmable Input
- Rugged Compact Design
- With Under Frequency Protection
- Soft Start Voltage Ramping
- EMI Suppression
- Built-in High Capacity 10Amp Fuse



## Specifications

<b>Sensing Input</b>	Voltage	180~260VAC, 1phase 2wire	<b>Voltage Build-up</b>	Residual volts at AVR terminal $> 5$ VAC
<b>Power Input</b>	Voltage	180~260VAC, 1phase 2wire	<b>External Volts Adjustment</b>	$\pm 7\%$ with 1K $\Omega$ 1watt trimmer
<b>Output</b>	Voltage	Max. 90VDC @ 240VAC input	<b>Soft Start Ramp Time</b>	2sec.
	Current	Continuous 4A Intermittent 7A for 10SEE.	<b>Unit Power Dissipation</b>	Max. 8Watt
	Resistance	Min. 12 $\Omega$ Max. 100 $\Omega$	<b>EMI Suppression</b>	Internal Electromagnetic Interference Filtering
			<b>Thermal Drift</b>	0.03% per $^{\circ}\text{C}$ change in AVR ambient
			<b>Under Frequency Protection (Factory Settings)</b>	60Hz system presets knee point at 55Hz 50Hz system presets knee point at 45Hz

**Volts Regulation**  $< \pm 1\%$  (with 4% engine governing)

## Environment

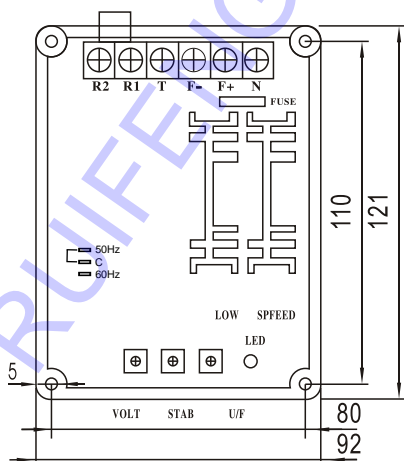
Vibration 3G @ 100~2K Hz

Relative Humidity  $< 95\%$

Operating Temperature  $-40 \sim 65^{\circ}\text{C}$

Storage Temperature  $-40 \sim 85^{\circ}\text{C}$

## Mechanical Specifications



## AVR Controls

VOLTS Voltage Adjustment

STAB Stability Adjustment

U/F To Set the U/F \* Knee Point

\*U/F: Under Frequency Protection

## Physical Specifications

Dimensions 121.0(L) 92.0(W) 60.0(H) mm

