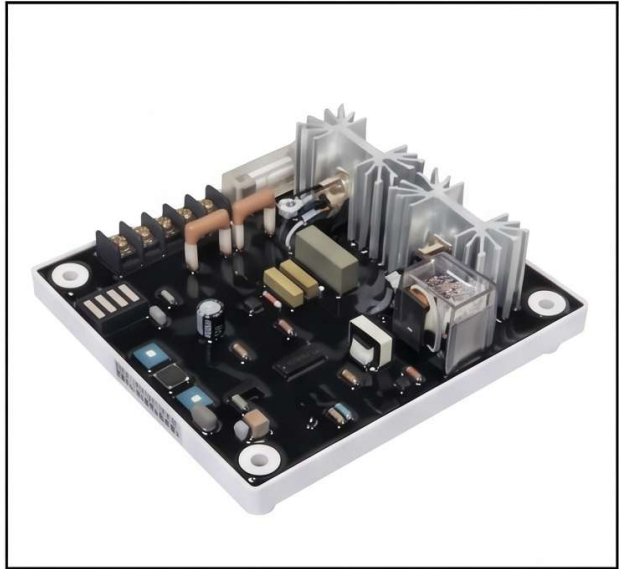


# POW50A / CF-30A

Universal 30 Amp ½ Wave Self Excited  
Dip-Switch Programmable Automatic  
Voltage Regulator

## Features

- $\pm 0.5\%$  Regulation
- 220/400 VAC Programmable Input
- Rugged Compact Design
- With Under Frequency Protection
- Soft Start Voltage Ramping
- EMI Suppression
- Built-in High Capacity 30Amp Fuse



## Specifications

|                       |                                               |
|-----------------------|-----------------------------------------------|
| Sensing Input Voltage | 400VAC, 1 phase 2 wire                        |
| Power Input Voltage   | 180-240VAC, 1 phase 2 wire                    |
| Output Voltage        | Max. 90VDC @ 240VAC input                     |
| Current               | Continuous 15A<br>Intermittent 25A for 10SEE. |
| Resistance            | Min. 10Ω Max. 100Ω                            |

|                                               |                                                                                  |
|-----------------------------------------------|----------------------------------------------------------------------------------|
| Voltage Build-up                              | Residual volts at AVR terminal > 5VAC                                            |
| Soft Start Ramp Time                          | 3sec.                                                                            |
| Unit Power Dissipation                        | Max. 8Watt                                                                       |
| EMI Suppression                               | Internal Electromagnetic Interference Filtering                                  |
| Thermal Drift                                 | 0.05% per °C change in AVR ambient                                               |
| Under Frequency Protection (Factory Settings) | 60Hz system presets knee point at 57Hz<br>50Hz system presets knee point at 47Hz |

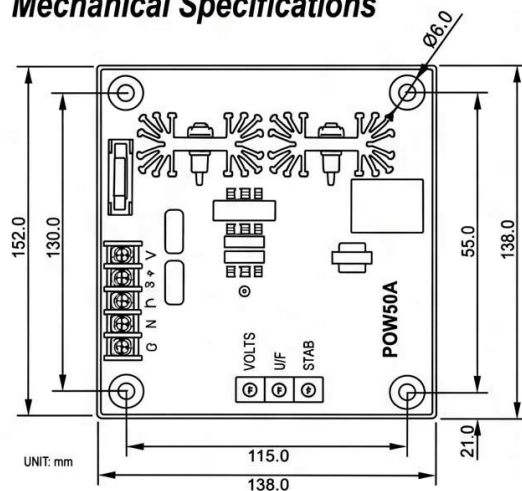
Volts Regulation  $< \pm 0.5\%$  (with 4% engine governing)

## Environment

Vibration 3G @ 100-2K Hz  
Operating Temperature -40-65 °C

Relative Humidity < 95%  
Storage Temperature -40-85 °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 152.0(L) x 138.0(W) x 55.0(H) mm

