

# EV-01 Over Voltage Monitor

It is specifically made to guard generators from potentially destructive high voltages from malfunctioning voltage regulators. This encapsulated solid state device is built-strong so it can protect itself from the violent vibrations and humidity present inside working generators; but it will be ready to perform when necessary.

Set-up is simple using two LEDs indicators (supply voltage & over-voltage) and two adjustments (sensing voltage & time delay.)

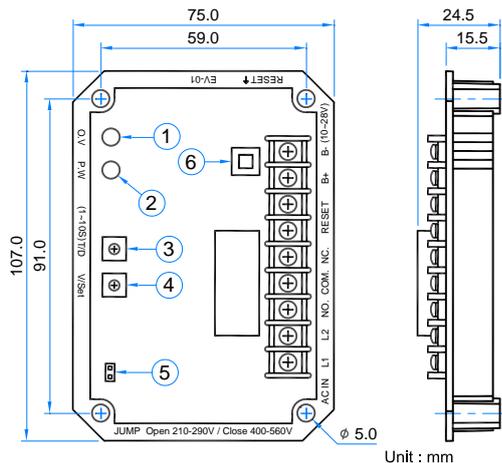
If EV-01 is activated, simply reset by shorting the two reset terminals or pulsing onboard push button.



## 1. SPECIFICATION

Working Power : 10 – 28 Vdc 0.3A max  
 Sensing Voltage : 210 – 290 / 400 – 560 Vac +/- 5%  
 0.5VA 40 – 500 Hz  
 Delay Time : 1–10 Sec +/- 5 Sec  
 Contact Rating : 10A / 250 Vac @ PF = 1 NO or NC  
 Operating Temperature : -40 to +60 °C  
 Relative Humidity : 10% to 95% non-condensing

## 2. DIMENSION / OUTLINE DRAWING



1. Over voltage indicator LED
2. Power LED
3. Delay time set
4. Voltage setting adjustment
5. Jumper from high to low voltage sensing
6. Onboard reset button

- AC IN L1, L2 : sensing input  
 210 – 290 Vac jumper removed  
 400 – 560 Vac jumper connected
- Output Contact : Normal Open (NO.), Common (COM.), Normal Closed (NC.)
- Reset : Remote Reset (Dry Contact) 100 mA @ 28 Vdc
- B+, B- : Power Input 10 – 28 Vdc

## 4. SETTINGS

- Connect battery supply and sensing AC IN L1 & L2 as diagram. The green LED should illuminate since no over-voltage is present.
- Turn time delay pot to lowest position (fully counterclockwise).
- And turn the voltage setting pot to highest position (fully clockwise).
- Select jumper ON/OFF depend on the range of sensing voltage and switch on AC power.
- Turn voltage setting pot counterclockwise slowly till the red LED is illuminated. The relay is energized and latched until either the RESET button is pressed or reset terminals are shorted momentary.
- Turn the time delay pot to position from 1 to 10 seconds.

## 5. GENERATOR OVER VOLTAGE PROTECTION APPLICATION

- Drawing for sensing and power in different connection (shown as Figure 2).
- Drawing for sensing and power in same connection (shown as Figure 3).

**WARNING**

Meggars and high-potential test equipment must not be used. Use of such equipment could damage the Semiconductors contained in the controller.

Please make sure you have read and understand the contents of the instruction manual prior to installation. Incorrect wiring connection may result in irreversible damage to the product and other equipments.

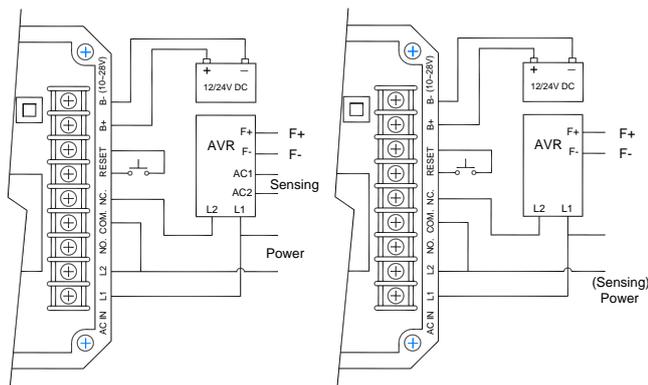


Figure 2

Figure 3

## 3. CONNECTION TERMINAL

Application disconnect voltage regulator from generator sensing and stops generator voltage output.