

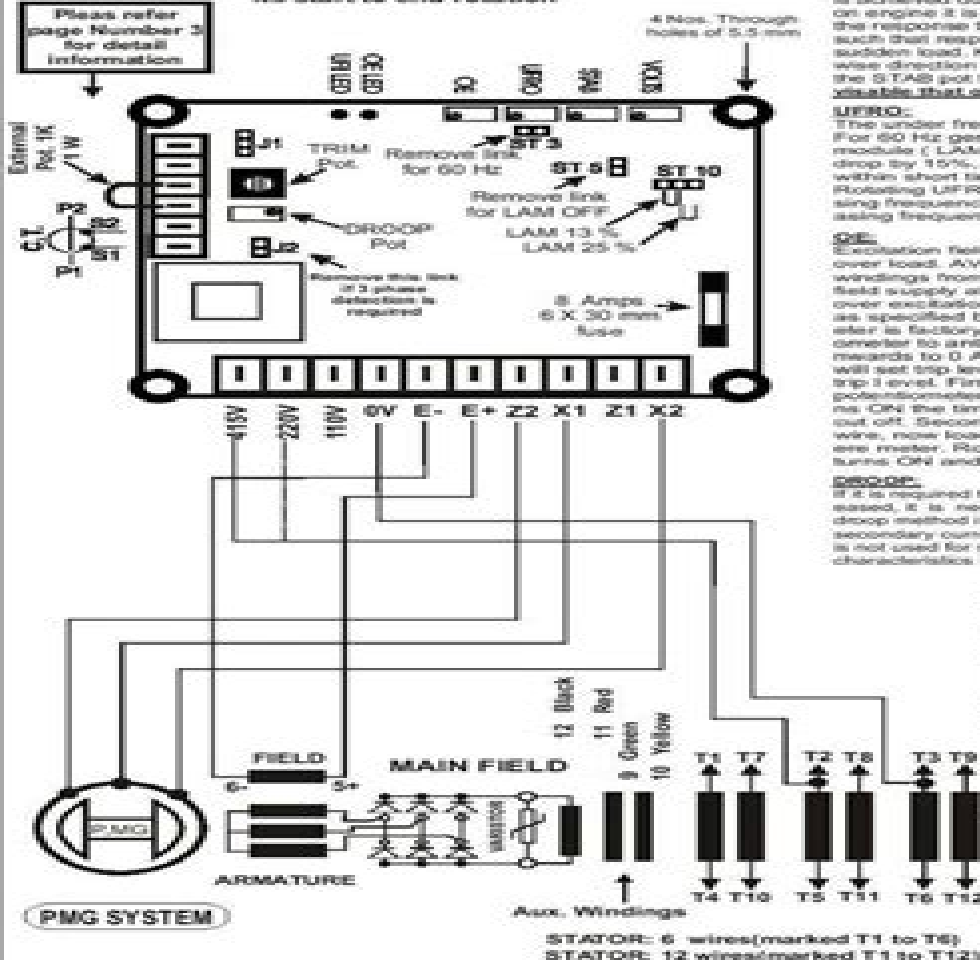


# CONNECTING AVR SPS - 438 TO PMG EXCITATION SYSTEM

**WARNING:** To prevent personal injury or equipment damage only qualified technicians / operator should install, operate or service this device.  
**CAUTION:** While using megger & high potential equipment, disconnect all connections of AVR. Incorrect use of such equipments could damage components of AVR.

## CONNECTION DIAGRAM OF AVR TO TYPICAL ALTERNATOR WITH PMG EXCITATION SYSTEM

Note: All potentiometers are 25 turns type to complete its start to end rotation



### VOLTS:

Rotate these pot clockwise to increase AC terminal voltage and anticlockwise to decrease AC terminal voltage. If it is required to adjust generated voltage from remote location then a 100 W potentiometer can be connected in series with sensing phase R of AVR. Using 1 K potentiometer voltage can be varied in the range of  $\pm 5\%$ .

### STAB:

Stability potentiometer is factory set such that optimum response of voltage recovery is achieved during sudden load changes. In some cases in order to release burden on engine it is required to sluggish the recovery time of voltage, therefore to increase the response time STAB potentiometer is carefully rotated anti clock wise direction such that response time will increase resulting in larger dip of terminal voltage during sudden load. Kindly note that by excessively rotating STAB potentiometer to clock wise direction at one stage will cause voltage fluctuation. Again by gradually rotating the STAB pot to anti clock wise direction will stabilize the generator voltage. **(It is advisable that only technically qualified person should adjust these pot.)**

### UFRO:

The under frequency roll off (UFRO) is factory set at 47 Hz for 50 Hz generator. For 60 Hz generator cut link wire to set knee point to 57 Hz. Load adjustment module (LAM) will be activated at 47 Hz or 57 Hz. LAM causes the voltage to drop by 15%, which helps to reduce burden on engine and recover its rated rpm within short time. It is possible to set UFRO potentiometer from 45 Hz to 59 Hz. Rotating UFRO potentiometer clock wise direction will set UFRO level in increasing frequency direction and rotating in anti clock wise direction will set to decreasing frequency. UFRO & LAM activation is indicated by UFI LED.

### OE:

Excitation field current exceeding its specified limit indirectly indicates alternator over load. AVR has in built accurate current sensing circuitry to protect alternator windings from over load. DC field current monitored by AVR circuitry will cut off field supply after 20-25 seconds when field current exceeds preset value. The over excitation trip level is factory set to 7 ADC. It will be required to set trip level as specified by excitation current on alternator name plate. The OE potentiometer is factory set to fully clock wise direction (7 ADC). By rotating the potentiometer to anti clock wise direction will set DC current trip level from 7 ADC downwards to 0 ADC. Vice versa rotating OE potentiometer to clock wise direction will set trip level from 0 ADC upwards to 7 ADC. There are two methods to set trip level. First method is to load the generator to full load and then rotate OE potentiometer anti clock wise direction till OE LED turns ON. Once OE LED turns ON the timer will be activated and after 20-25 seconds field supply will be cut off. Second method is to connect a DC ammeter in between F1 & field wire, now load the generator such that required DC current is observed on ammeter. Rotate OE potentiometer anti clock wise direction such that OE LED turns ON and this will set OE trip at required DC current.

### DROOP:

If it is required to synchronize more than one generator, so that system capacity can be increased, it is necessary that power sharing between all generators is equal. Quadrature droop method is used to control reactive current of generators. A current transformer with secondary current of 1 A at full load of generator is connected third phase of generator which is not used for sensing of AVR. The direction of secondary current should be such that droop characteristics is achieved. DROOP characteristics of  $\pm 10\%$  can be achieved at 1 Ampere.

## SPECIFICATIONS:

INPUT VOLTAGE	125 V AC max.
SENSING VOLTAGE	110 / 220 / 415 V AC, 50/60 Hz
OUTPUT EXCL. VOLTAGE	160 V DC
OUTPUT EXCL. CURRENT	7 A DC. ( 15 A DC FOR 15 - SECONDS )
INPUT FREQUENCY	50 / 60 Hz link select
RESIDUAL BUILD UP	6 V AC AT 50 / 60 Hz.
VOLTAGE REGULATION	$\pm 1\%$ thermal drift 0.24% per 1 Deg. C
UNDER FREQUENCY (UFRO / UFI LED)	FACTORY SETTING 47 Hz. CUT LINK FOR 60 Hz. INDICATION BY UFI - LED
OVER EXCITATION CURRENT TRIP (OE)	25 SECONDS DELAY TIMER. ADJUSTABLE POT RANGE 0 - 7 ADC. INDICATION BY OE - LED
EXTERNAL POTENTIOMETER	$\pm 5\%$ using 1 K Ohms pot
VIBRATION	20-100Hz 50 mm/sec 100Hz - 2 KHz 3.3g
OPERATING TEMPERATURE	-40 TO +70 °C
STORAGE TEMPERATURE	-55 TO +85 °C
RELATIVE HUMIDITY	0 TO +75 °C : 95 %
FUSE ( FAST ACTING)	8 AMPS ( SIZE: 5 X 20 mm)
DIMENSIONS (L X B X H)	142 X 125 X 60 mm
WEIGHT	610 gms

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# Ls Avr Connection Diagram

**Yoshihide Hase,Tanuj  
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