

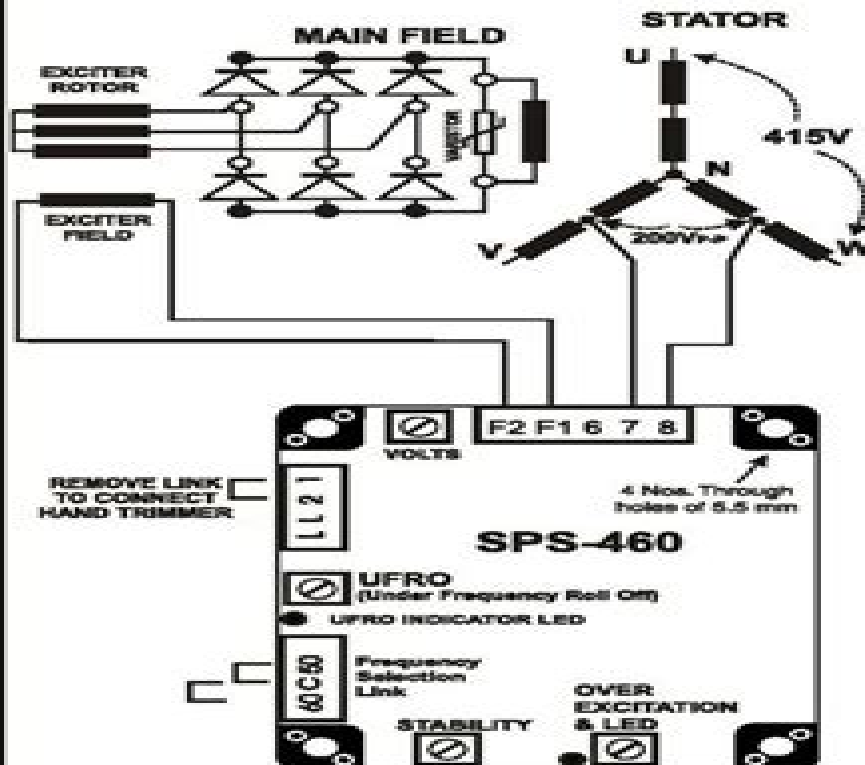
## SPECIFICATIONS & TECHNICAL DETAILS OF AVR MODEL SPS-460

**WARNING:** To prevent personal injury or equipment damage only qualified technician / operator should install, operate or service this device.

**CAUTION:** While using mesager & high potential equipment, disconnect all connections of AVR. Incorrect use of such equipments could damage components of AVR.

**Typical connection diagram of AVR to alternator.**

- 1) Input & sensing to AVR from center tap of stator winding. Voltage range can be between 160 to 260 V AC
- 2) Input to AVR can be also from any one Phase & Neutral 220 V.



**VOLT:**

Rotate these pot clockwise to increase A/C terminal voltage and anticlockwise to decrease A/C terminal voltage.

**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 larger dip in terminal voltage during sudden load. Kindly note that by excessively rotating STAB potentiometer to clock wise direction at one stage voltage will become unstable and cause hunting. 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:**

It is not required to adjust these pot as it is factory factory set at 47 Hz for 50 Hz . For 60 Hz by removing the link, UFRO level will change to 57 Hz. If it is required to adjust then by rotating the pot to clock wise will increase UFRO level above 47 Hz and rotating anti clockwise will decrease UFRO level below 47 Hz. UFRO activation is indicated by UFRO LED.

CE:

Field voltage over excitation set point is factory set to .65 V DC. If it is required to cut off excitation voltage below 65 V, then connect DC volt meter across F1 & F2. Load the alternator such that required DC voltage is noted on volt meter. Now rotate OE pot anticlockwise till OE LED is just ON. Once LED is turned ON the internal timer will be activated and will cut off excitation. Power. After 20 sec. it will be required to shut down engine to reset the tripping circuit.

**SPECIFICATIONS:**

<b>INPUT VOLTAGE</b>	180 to 260 V AC
<b>SENSING VOLTAGE</b>	180 to 260V AC
<b>OUTPUT EXCL VOLTAGE</b>	95 V DC @ 240 V AC
<b>OUTPUT EXCL. CURRENT</b>	4 A DC, ( 12 A DC FOR 15 - SECONDS )
<b>INPUT FREQUENCY</b>	50 / 60 Hz
<b>RESIDUAL BUILD UP VOLTAGE REGULATION</b>	5 V AC AT 50 Hz. +/- 1 %
<b>UNDER FREQUENCY (UFRO / UFRO LED )</b>	FACTORY SETTING 47 Hz. REMOVE LINK FOR 50 Hz INDICATION BY UFRO - LED
<b>UFRO Potentiometer range</b>	40 Hz to 55 Hz, +/- 2 Hz
<b>OVER EXCITATION CURRENT TRIP ( OE / OEI )</b> (Factory setting 65 V DC max)	35 SECONDS DELAY TIMER. ADJUSTABLE POT RANGE 20 TO 95 V DC. INDICATION BY OE - LED
<b>Internal Volts Potentiometer Range - Ph - Ph AC Volts.</b>	Min: 320 V, Max: 500 V +/- 5%.
<b>EXTERNAL POTENTIOMETER</b>	+/- 5 % using 1 K Ohm pot
<b>OPERATING TEMPERATURE</b>	-10 Deg. C to 50 Deg. C
<b>Voltage change due to Thermal drift</b>	From 0 - 75 Deg C- +/- 3 V
<b>RELATIVE HUMIDITY</b>	0 TO +70 C< 95 %
<b>FUSE ( FAST ACTING)</b>	4 Amps. ( Size: 5 X 20 mm )
<b>DIMENSIONS (L X B X H)</b>	128 X 94 X 45 mm
<b>WEIGHT</b>	255 gms

**NOTE:** Continuous development of our products entitles us to change specifications & other details without notice. Please contact factory for latest information.

# Sx460 Avr Manual

**Arturo Cuomo**



## **Sx460 Avr Manual:**

## Decoding **Sx460 Avr Manual**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Sx460 Avr Manual**," a mesmerizing literary creation penned by a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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