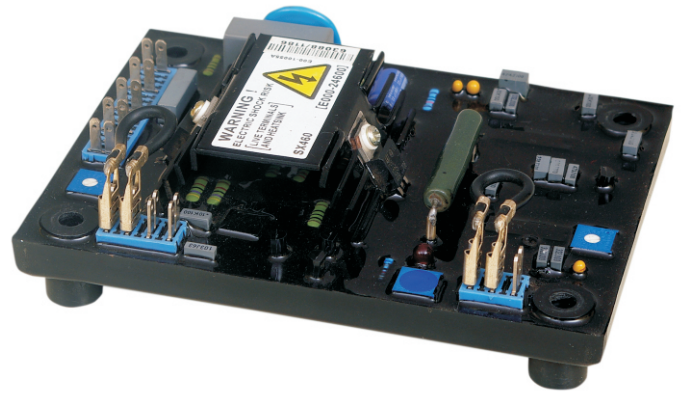


## STAMFORD SX460 AVR

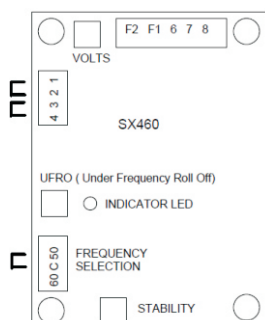
### General Description

SX460 is a half-wave phase-controlled thyristor type Automatic Voltage Regulator (AVR) and forms part of the excitation system for a brush-less generator.



### Technical Specifications

<b>Input voltage</b>	95-132VAC or 190-264VAC 1 phase 2wire
<b>Frequency</b>	50 / 60 Hz Selectable
<b>Output voltage</b>	Voltage Max. 90 VDC at 207 VAC input Current Continuous 4A, Intermittent 6A for 10 sec. Resistance Min. 15Ω
<b>Regulation</b>	+/- 1.0% With 4% engine governing
<b>Voltage build-up</b>	Residual volts at AVR terminal > 4 VAC
<b>Typical system response</b>	AVR response 20 ms Filed current to 90% 80 ms Machine Volts to 97% 300 ms
<b>Thermal drift</b>	0.05% per °C change in AVR ambient
<b>Unit power dissipation</b>	Max. 10 watt
<b>External volts adjustment</b>	±10% with 1 KΩ 1 watt trimmer
<b>Under Frequency Protection(UFRO)</b>	95% Hz jumper selectable
<b>Environment</b>	Vibration 20-100 Hz 50mm/sec, 100Hz – 2kHz 3.3g Operating Temperature -40 ~ +65°C
<b>Dimensions</b>	137.0(L) 100.0(W) 40.0(H)mm
<b>Weight</b>	370 g



SUMMARY OF AVR CONTROLS		
CONTROL	FUNCTION	DIRECTION
VOLTS	TO ADJUST GENERATOR OUTPUT VOLTAGE	CLOCKWISE INCREASES OUTPUT VOLTAGE
STABILITY	TO PREVENT VOLTAGE HUNTING	CLOCKWISE INCREASE THE DAMPING EFFECT
UFRO	TO SET THE UFRO KNEE POINT	CLOCKWISE REDUCES THE KNEE POINT FREQUENCY