

Automatic Voltage Regulators

Stavol[®]



FIRST CLASS QUALITY IN AUTOMATIC VOLTAGE REGULATORS.



STAVOL quality speaks for itself. Precision-crafted, accurate and highly efficient — these units offer a host of peerless qualities including rapid correction, zero-waveform distortion, a wide range of input voltages and a compact and lightweight construction. STAVOL units are ideal for all electrical appliance/constant input voltage applications. Do not settle for less than the best.

■ Specifications

Input Voltage	50V ~ 130V/160V ~ 240V
Output Voltage	110V/220V \pm 3%
Phase	Single-phase
Frequency	50Hz/60Hz
Response Time	Within 0.5 sec. against 10% input voltage deviation.
Efficiency	Better than 90% (input voltage 180V, output voltage 220V and at rated load)
Power Factor	Better than 95% (input voltage 180V, output voltage 220V and at rated load)
Ambient Temperature	-5°C ~ +40°C
Ambient Humidity	Less than 90% (relative humidity)
Temperature Rise	Less than 75°C (input voltage 180V, output voltage 220V and at rated load)
Cooling System	Convection-cooled (Model 3kVA ~ 10kVA Air blast)
Control System	DC servo-motor
Style	Stand-alone style
Insulation Resistance	More than 3M Ω at DC 500V
Dielectric Strength	Tested at AC 1500V for 1 min.

■ Applications

- Computers
- Test equipment
- Lighting equipment
- Alarm and security systems
- X-ray equipment
- Communication systems
- Medical equipment
- Calculating machines
- Auto process control equipment
- Broadcasting equipment
- Photographic processing equipment
- Numeric control machine tools
- Industrial robots
- Laboratory instruments
- TV sets
- Hi-fi equipment

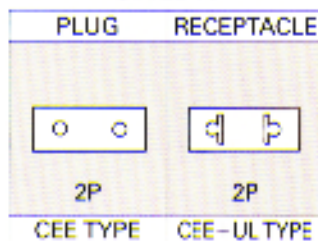


■ Plug and Receptacle

SVC-350NA/500NA/1000NA/1500NA/2000NA have equipped with style A for input and output, as our standard. We can also supply unit with style B/C/D for output upon request, as option.

(STANDARD)

STYLE A

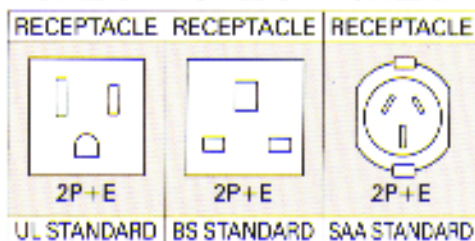


(OPTION)

STYLE B

STYLE C

STYLE D



■ Ratings, dimensions and weight

Model	Power Output		Input Voltage	Output Voltage	W (mm)	D (mm)	H (mm)	Weight (kg)
	I	II						
SVC-350NA	350VA	175VA	Single-phase 50V~130V → 110V±3% 160V~240V → 220V±3%		175	160	110	3.3
SVC-500NA	500VA	250VA			175	160	110	3.5
SVC-1000NA	1kVA	500VA			195	180	135	5.5
SVC-1500NA	1.5kVA	750VA			215	190	145	6.5
SVC-2000NA	2kVA	1kVA			235	230	190	9.5
SVC-3000NA	3kVA	1.5kVA			250	285	225	14
SVC-5000NA	5kVA	2.5kVA			290	360	285	23
SVC-7500NA	7.5kVA	3.75kVA			330	410	330	34
SVC-10000NA	10kVA	5kVA			330	570	370	54

- Two different voltage can be supplied simultaneously in the manner illustrated.
- Frequency 50/60Hz

* Power Output

RATED CAPACITY in different conditions are shown on the following table and OPERATING INSTRUCTIONS.

Input Voltage	Output Voltage	Power Output	Use
160V ~ 240V	220V	A Rating (VA)	I
	110V	A' Rating (VA)	
50V ~ 130V	220V	B Rating (VA)	II
	110V	B Rating (VA)	

Above Power Output (VA) is in the condition of 220V or 110V from +10% to -10% of input nominal voltage.

It will be increased or decreased according to the input power fluctuation.

OPERATING INSTRUCTIONS

1. Please don't use "Stavol" in an over load condition or at over current rating. If you use "Stavol" in these cases, it may be broken or burned out. "Stavol" can supply full capacity in the range from +10% to -10% of input nominal voltage. (See Figure 1 and 2)
2. In case you use "Stavol" at very low input voltage, please use it in only small capacity of load condition. (See Figure 1 and 2)
3. In case you use "Stavol" for 220V and 110V applications at the same time as multi voltages usages, please use it at less than half load condition. (See Figure 1 and 2)
And also you use "Stavol" in 220V input voltage and 110V output voltage or 110V input and 220V output voltage as cross counter voltage usage, please use it in the same condition of above NO. 2.
4. Please use the good or much enough connecting cables between "Stavol" and load equipment to avoid voltage drop. And also please use the good or much enough connecting cables between "Stavol" and power source.

Figure 1: The limited output capacity by using conditions. (Use I ratings)

Figure 2: The limited output capacity by using conditions. (Use II ratings)

Figure 1 RATED CAPACITY USE I

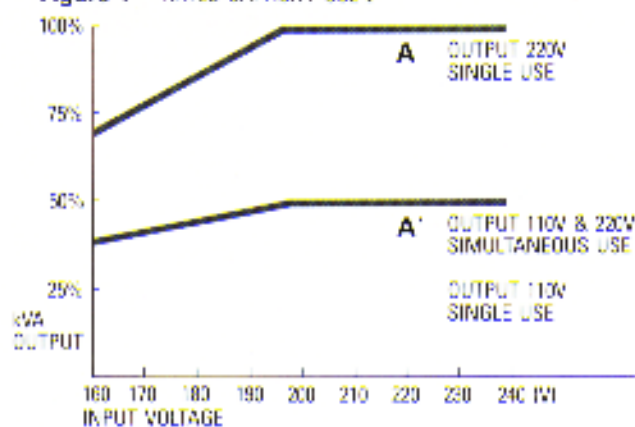
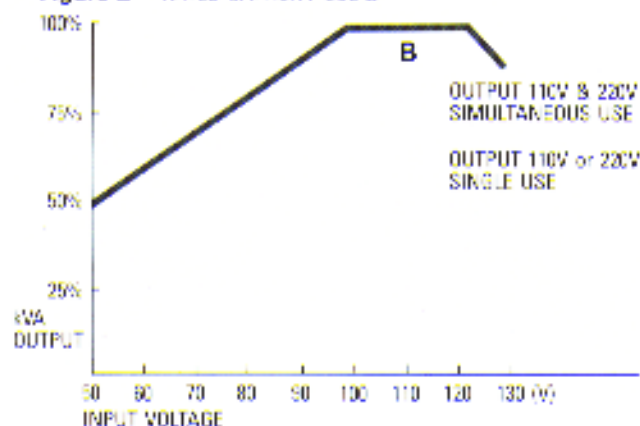


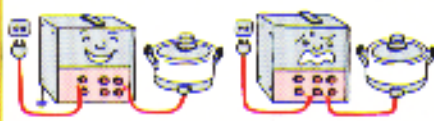
Figure 2 RATED CAPACITY USE II



Please check the power source voltage and the input voltage range of your "Stavol".



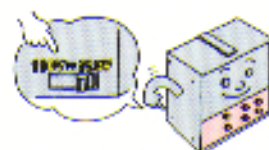
Please be careful with the connecting cables between the input of "Stavol" and the power source, and between the output and the load equipment.



Please connect the load equipment to the same output voltage of "Stavol".



Please set the input voltage selector switch same as the source voltage.



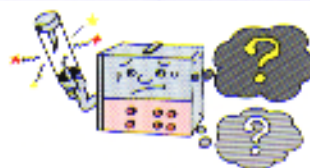
Please don't use your "Stavol" in an over load condition.



Please use the good enough connecting cables.



If the fuse is blown out, please check the load equipment and your "Stavol".



Please replace a new fuse of some rating and never use another rating one or wire.



Please set your "Stavol" in dry and cool place where no water nor petrol is.

