

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

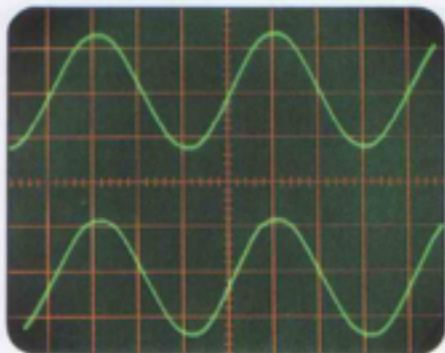
	N MODEL	NM MODEL
Input Voltage	50V ~ 130V/160V ~ 240V	150V ~ 250V
Output Voltage	110V/220V ± 3%	220V ± 3%, 110V ± 3%
Phase	Single-phase	
Frequency	50Hz/60Hz	
Response Time	Within 0.5sec. against 10% input voltage deviation.	Within 0.8sec. against 10% input voltage deviation.
Efficiency	Better than 90% (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 2kVA ~ 10kVA Air blast)	Convection-cooled (Model 3kVA ~ 10kVA Air blast)
Control System	DC servo-motor	
Style	Stand-alone style	
Insulation Resistance	More than 3MΩ at DC 500V	
Dielectric Strength	Tested at AC 1500V for 1 min.	

Applications

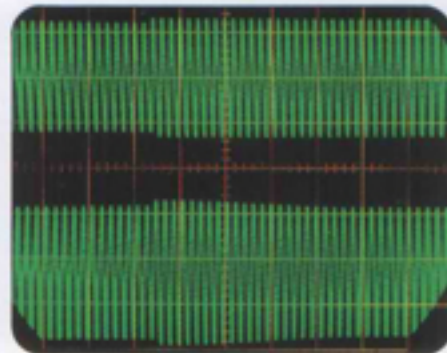
- Computers
- X-ray equipment
- Auto process control equipment
- Industrial robots
- Test equipment
- Communication systems
- Broadcasting equipment
- Laboratory instruments
- Lighting equipment
- Medical equipment
- Photographic processing equipment
- TV sets
- Alarm and security systems
- Calculating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



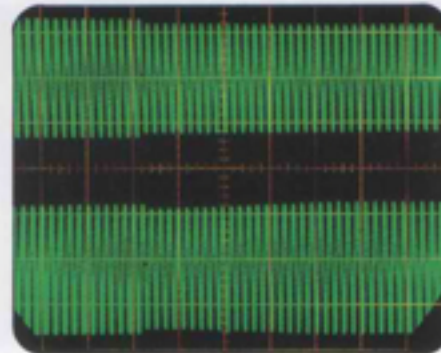
Performance



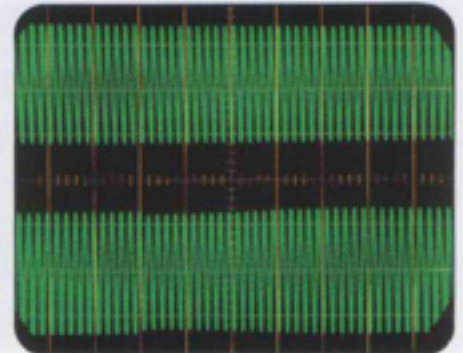
Input and output waveforms
Power factor: 1.0 Load: 100%
(5msec/cm)



Response time
Input voltage change: +10%
(0.1sec/cm)



Response time
Input voltage change: -10%
(0.1sec/cm)



Response time
Load change: 0→100%
(0.1sec/cm)

Ratings, dimensions and weight

Model	Power Output	Input Voltage	Output Voltage	W (mm)	D (mm)	H (mm)	Weight (kg)
SVC-350N	350VA	Single-phase 50V ~ 130V → 110V ± 3% 160V ~ 240V → 220V ± 3%		175	160	110	3.5
SVC-500N	500VA			195	180	135	5.5
SVC-750N	750VA			215	190	145	6.1
SVC-1000N	1kVA			215	190	145	6.5
SVC-1500N	1.5kVA			235	230	190	9.5
SVC-2000N	2kVA			250	271	225	14
SVC-3000N	3kVA			290	344	285	23
SVC-5000N	5kVA			330	387	330	34
SVC-7500N	7.5kVA			330	570	370	54
SVC-10000N	10kVA			370	570	410	70
SVC-500NM	500VA	Single-phase 150V ~ 250V → 110V ± 3% → 220V ± 3%		175	160	110	3.5
SVC-1000NM	1kVA			195	180	135	5.5
SVC-1500NM	1.5kVA			215	190	145	6.5
SVC-2000NM	2kVA			235	230	190	10
SVC-3000NM	3kVA			250	271	225	14
SVC-5000NM	5kVA			290	344	285	23
SVC-7500NM	7.5kVA			330	387	330	34
SVC-10000NM	10kVA			330	570	370	54

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

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. And also NM type model can supply full capacity in the range from +14% 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 step-up or step-down 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 N MODEL

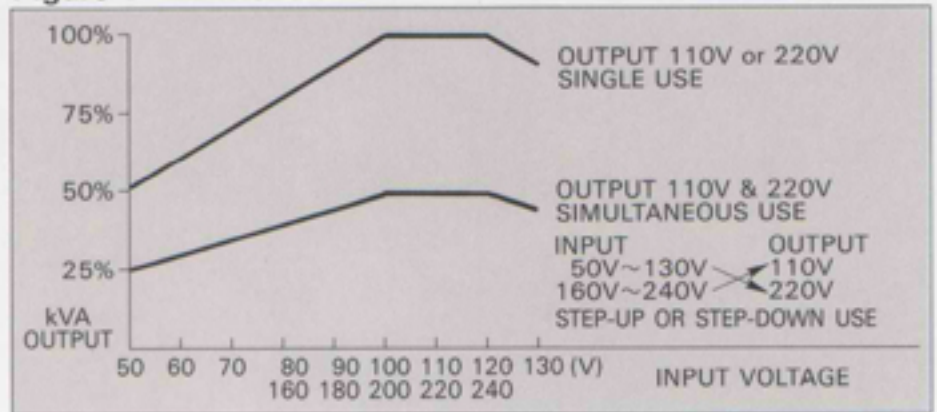


Figure 2 NM MODEL

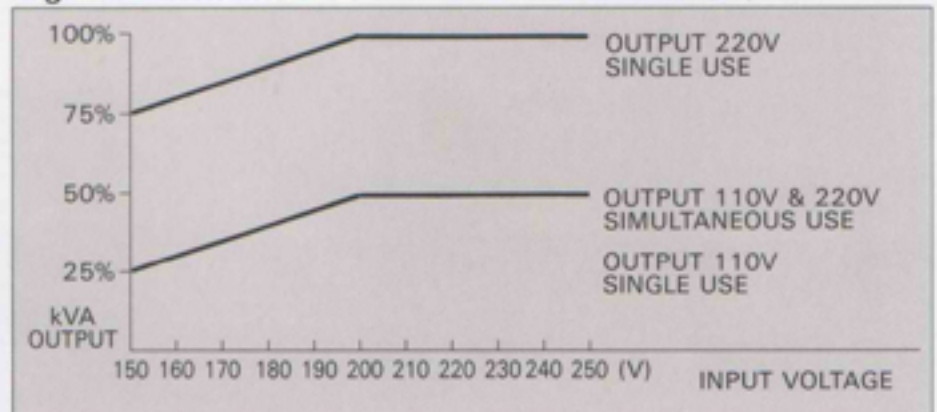


Figure 1: The limited output capacity by using conditions. (N model)

Figure 2: The limited output capacity by using conditions. (NM model)

<p>Please check the power source voltage and the input voltage range of your "Stavol"</p>	<p>N MODEL</p> <p>INPUT 160V~240V 50V~130V</p> <p>OUTPUT 220V 110V</p> <hr/> <p>NM MODEL</p> <p>INPUT 150V~250V</p> <p>OUTPUT 220V 110V</p>	<p>Please connect the load equipment to the same output voltage of "Stavol".</p>	
<p>Please set the input voltage selector switch same as the source voltage. (SVC-350N~1500N)</p>		<p>Please don't use your "Stavol" in an over load condition.</p>	
<p>Please connect properly each input terminal according to the source voltage. (SVC-2000N~10000N)</p>		<p>If the fuse is blown out, please check the load equipment and your "Stavol".</p>	
<p>Please connect properly each input terminal according to the source voltage. (SVC-2000N~10000N)</p>		<p>Please replace a new fuse of same rating and never use another rating one or wire.</p>	
<p>Please use the good enough connecting cables.</p>		<p>Please set your "Stavol" in dry and cool place where no water nor petrol is.</p>	