


SVC-N Series

Voltage Stabilizer

OPERATION INSTRUCTION

CNC Deliver Power For
Better Life

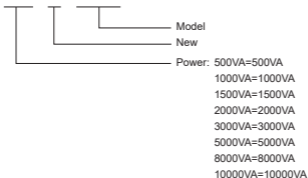
-  Before installing and using this product, please read this manual carefully and pay more attention to safety.

1. General

SVC-N Voltage Stabilizer is a power supply circuit or equipment that can automatically adjust the output voltage.

2. Type designation

SVC - N - 500VA



3. Operating Conditions

1. Ambient temperature: $-5^{\circ}\text{C}\sim+40^{\circ}\text{C}$
2. Relative humidity: $\leq 20\%$ at 40°C ; $\leq 90\%$ at 20°C
3. Altitude: $\leq 2000\text{m}$
4. Environmental conditions: no harmful gases and vapors, no conductive or explosive dust, no severe mechanical vibration

4. Technical data

Model	0.5kVA	1kVA	2kVA	3kVA	5kVA	7kVA	10kVA	15kVA	20kVA	30kVA
Input voltage	100V-280V									
Frequency	50/60Hz									
Output										
Output voltage	220V									
Output accuracy	±3%									
Power factor	0.8									
Efficiency	98%									
Phase	Single-phase									
Relative time	<1s (when external voltage changes by 10%)									
Relative humidity	≤90%									
Waveform distortion	No waveform distortion									
Insulation resistance	>2M Ω									
Digital display										
Input voltage	Digital display shows the exact value									
Output voltage	Digital display shows the exact value									
Input current	Digital display shows the exact value (Digital display shows load percentage)									
Abnormal display	Digital display can indicate overvoltage, undervoltage, overcurrent, and overheating.									
Protection										
Overload protection	The switch is automatically switched off.									
AutomaticSwitch-off	Overvoltage protection									
	Undervoltage protection									
	Overcurrent protection									
	Overheating Protection									
	Power failure, interruption!									
	Short circuit									

5. Efficiency

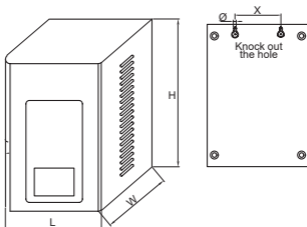
If the input voltage is within the range of 100-260V the stabilizer can easily provide an output of 220 V \pm 3%. The maximum output power is 100% when the input voltage is 200V. If the input voltage is below 200V, the maximum output power of the stabilizer changes according to the curve shown in the graph below. The power reserve of the stabilizer should be no less than 20-30% of the total connected load.

Model	Under Voltage-Over Voltage & Current(A)													
	Input voltage	100V	110V	120V	130V	140V	150V	160V	170V	180V	190V	200-260V		
SVC-N-0.5kVA/Input Current 2.3A)	Load percentage	30%	35%	40%	45%	50%	55%	65%	75%	85%	90%	95%		
	Watt	150	175	200	225	250	275	325	375	425	450	475		
SVC-N-1kVA/Input Current 4.5A)	Output Current(A)	0.65	0.75	0.9	1	1.1	1.25	1.45	1.7	1.9	2	2.15		
	Watt	300	350	400	450	500	550	650	750	850	900	950		
SVC-N-1.5kVA/Input Current 6.8A)	Output Current(A)	1.3	1.5	1.8	2	2.2	2.5	2.9	3.4	3.8	4	4.3		
	Watt	450	525	600	675	750	825	975	1125	1275	1350	1425		
SVC-N-2kVA/Input Current 9A)	Output Current(A)	1.95	2.25	2.7	3	3.3	3.75	4.35	5.1	5.7	6	6.45		
	Watt	600	700	800	900	1000	1100	1300	1500	1700	1800	1900		
SVC-N-3kVA/Input Current 13.5A)	Output Current(A)	2.6	3	3.6	4	4.4	5	5.8	6.8	7.6	8	8.6		
	Watt	900	1050	1200	1350	1500	1650	1950	2250	2550	2700	2850		
SVC-N-5kVA/Input Current 22.5A)	Output Current(A)	3.9	4.5	5.4	6	6.6	7.5	8.7	10.2	11.4	12	12.9		
	Watt	1500	1750	2000	2250	2500	2750	3250	3750	4250	4500	4750		
SVC-N-8kVA/Input Current 36A)	Output Current(A)	6.5	7.5	9	10	11	12.5	14.5	17	19	20	21.5		
	Watt	2400	2800	3200	3600	4000	4400	5200	6000	6800	7200	7600		
SVC-N-10kVA/Input Current 45A)	Output Current(A)	10.4	12	14.4	16	17.6	20	23.2	27.2	30.4	32	34.4		
	Watt	3000	3500	4000	4500	5000	5500	6500	7500	8500	9000	9500		
Output Current(A)	13	15	18	20	22	25	29	34	38	40	43			

6. Caution

- **Avoid Overloading**
Do not use the stabilizer beyond its maximum power capacity.
- When connecting to any device that operates with a compressor, the starting power (transient power) is usually several times higher than the power indicated by the device.
- Ensure that the total starting power of all connected devices does not exceed the specified maximum output power of the stabilizer.
- Ensure that the stabilizer's output voltage and frequency match the connected device.
- Ensure that the power supply voltage is within the specified input voltage range of the stabilizer.
- Always place the stabilizer under the following conditions:
 - In a well-ventilated area.
 - Away from direct sunlight or heat sources.
 - Out of reach of children.
 - Away from water, moisture, oil, or grease.
 - Away from flammable substances.

7. Overall and mounting dimensions(mm)



Model and specification (VA)	Dimensions (mm)			Wall Mounted Installation (mm)	
	L	W	H	X(hole pitch)	Ø
SVC-N-500	160	130	255	108	8.4
SVC-N-1000	190	150	275	108	8.4
SVC-N-1500	190	150	275	108	8.4
SVC-N-2000	220	175	315	135	8.4
SVC-N-3000	255	195	365	135	8.4
SVC-N-5000	255	195	365	135	8.4
SVC-N-8000	310	215	420	135	8.4
SVC-N-10000	310	215	420	135	8.4



CERTIFICATE

Product Model: SVC-N Series

Inspector: CNC 001

Production date: Printed on the product
or package

This product is qualified according to the
delivery inspection

CNC ELECTRIC

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