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AVR CATALOG

SVC / TNS / SBW Series

EverExceed Corporation



SVC series

AC. Automatic Voltage Regulator



MAIN FEATURES

1. Automatic voltage regulation
2. Protection against brownout & over voltage
3. Wide input voltage range
4. Short circuit & over load protection
5. Selectable delay time

SVC-500VA
SVC-1000VA
SVC-1500VA



SVC-2000VA
SVC-3000VA
SVC-5000VA

DISPLAYS FOR SELECTION



SVC-500VA
SVC-1000VA
SVC-1500VA

SVC-2000VA
SVC-3000VA



TECHNICAL PARAMETER

Specification		SVC-500VA	SVC-1000VA	SVC-1500VA	SVC-2000VA	SVC-3000VA	SVC-5000VA
Input	Phase	Single phase					
	Voltage	AC 150V-250V / 50V-130V					
	Frequency	50Hz / 60Hz					
Output	Voltage	220V±3%, 110V±6%					
	Capacity	400W	800W	1200W	1600W	2400W	4000W
	Frequency	50Hz / 60Hz					
Protection	Low Volt.	AC 186V±4V					
	Over Volt.	AC 246V±4V					
	Delay	3-7sec / 3-7min Selectable					
	Over load/short circuit	Yes					
Packaging	pcs per carton	4		2		1	
	Shipping Wt.(KG)	18	25.8	29.6	24.5	26.8	74.5
	Package Dimensions (mm)	430*240*360	550*505*210		590*335*235	600*360*270	540*305*256
Efficiency	AC-AC	>95%					
Acoustic	Noise Level	≤50dB					
Environmental	Temperature	-5℃~45℃ Degree					
	Humidity	20% to 90%					
QTY (pc)	20FT	3000	1840	1200	960	660	

SVC series

AC. Automatic Voltage Regulator



MAIN FEATURES

1. Automatic voltage regulation
2. Protection against brownout & over voltage
3. Wide input voltage range
4. Short circuit & over load protection
5. Selectable delay time

SVC-5000VA
SVC-7500VA
SVC-10KVA



DISPLAYS FOR SELECTION



SVC-5000VA
SVC-7500VA
SVC-10KVA



SVC-10KVA



SVC-10KVA
(vertical type)



TECHNICAL PARAMETER

Specification		SVC-7500VA	SVC-10KVA	SVC-10KVA	SVC-15KVA	SVC-20KVA	SVC-30KVA	
Input	Phase	Single phase						
	Voltage	AC 176-260V						
	Frequency	50Hz / 60Hz						
Output	Voltage	AC 220V±3%,						
	Capacity	6000W	8KW	8KW	12KW	16KW	24KW	
	Frequency	50Hz / 60Hz						
	Power Factor	0.8						
Protection	Low Volt.	AC 184V±4V						
	Over Volt.	AC 246V±4V						
	Over load/short circuit	Yes						
Packaging	pcs per carton	1						
	Shipping Wt.(KG)	30.5	34	46.5	61.2	63	96	
	Package Dimensions (mm)	505*365*300		425*410*675		480*400*850		960*530*460
Efficiency	AC-AC	>95%						
Acoustic	Noise Level	≤50dB						
Environmental	Temperature	-5°C~45°C Degree						
	Humidity	20% to 90%						
QTY (pc)	20FT	465		235		170		115

TNS series

AC. Automatic Voltage Regulator



MAIN FEATURES

1. Large capacity, high precision
2. Adopted compensate voltage technology
3. Wide input voltage range
4. Over voltage protection
5. Output voltage three phase auto-balance (individual control)
6. With bypass system

DISPLAYS FOR SELECTION



TNS-1.5KVA
TNS-3KVA
TNS-4.5KVA



TNS-6KVA
TNS-9KVA
TNS-15KVA



TNS-1.5KVA
TNS-3KVA
TNS-4.5KVA



TNS-6KVA
TNS-9KVA
TNS-15KVA



TECHNICAL PARAMETER

Specification		TNS-1.5KVA	TNS-3KVA	TNS-4.5KVA	TNS-6KVA	TNS-9KVA	TNS-15KVA
Input	Phase	Three phase					
	Voltage	AC 260-430V					AC 276-430V
	Frequency	50Hz / 60Hz					
Output	Voltage	380V±3%,					
	Capacity	1.2KW	2.4KW	3.6KW	4.8KW	7.2KW	12KW
	Frequency	50Hz / 60Hz					
Protection	Low Volt.	318V±7V					
	Over Volt.	426V±7V					
	Over Heat	Optional					
	Cooling System	Natural cooling system (Optional)					
	Short Phase	Yes					
	Delay	3-7sec/3-7min selectable					
	By Pass	AUTO/MANUAL OPTIONAL					
	Over load/short circuit	YES					
Packaging	pcs per carton	1					
	Shipping Wt.(KG)	28	29	31	51	54	89
	Package Dimensions (mm)	525*350*445		440*420*850		425*430*865	
Efficiency	AC-AC	>95%					
Acoustic	Noise Level	≤50dB					
Environmental	Temperature	-5℃~45℃ Degree					
	Humidity	20% to 90%					
QTY (pc)	20FT	320		150			100

TNS series

AC. Automatic Voltage Regulator



MAIN FEATURES

1. Large capacity, high precision
2. Adopted compensate voltage technology
3. Wide input voltage range
4. Over voltage protection
5. Output voltage three phase auto-balance
6. With bypass system

TNS-20KVA
TNS-30KVA



DISPLAYS FOR SELECTION



TNS-20KVA
TNS-30KVA



TNS-40KVA
TNS-60KVA
TNS-90KVA



TNS-40KVA
TNS-60KVA
TNS-90KVA



TECHNICAL PARAMETER

Specification		TNS-20KVA	TNS-30KVA	TNS-40KVA	TNS-60KVA	TNS-90KVA
Input	Phase	Three phase				
	Voltage	AC 276-430V			AC 304-456V	
	Frequency	50Hz / 60Hz				
Output	Voltage	380V±3%,				
	Capacity	16KW	24KW	32KW	48KW	72KW
	Frequency	50Hz / 60Hz				
Protection	Low Volt.	318V±7V				
	Over Volt.	426V±7V				
	Over Heat	Optional				
	Cooling System	Natural cooling system (Optional)				
	Short Phase	Yes				
	Delay	3-7sec/3-7min selectable				
	By Pass	AUTO/MANUAL OPTIONAL				
	Over load/ short circuit	Yes				
Packaging	pcs per carton	1				
	Shipping Wt.(KG)	95	110	206	220	295
	Package Dimensions (mm)	560*575*1150			760*710*1380	
Efficiency	AC-AC	>95%				
Acoustic	Noise Level	≤50dB				
Environmental	Temperature	-5℃~45℃ Degree				
	Humidity	20% to 90%				
QTY (pc)	20FT	70		20		14

SBW series

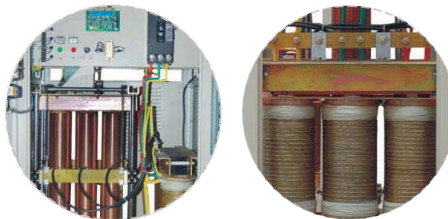
AC. Automatic Voltage Regulator



MAIN FEATURES

1. Large capacity, high precision
2. Adopted compensate voltage technology
3. Wide input voltage range
4. Over voltage protection
5. Output voltage three phase auto-balance
6. With bypass system
7. Analog, LED, LCD display optional

DISPLAYS FOR SELECTION



SBW-50KVA SBW-100KVA

WORKING PRINCIPLE

The stabilizers consist of compensating circuits, control circuits, check circuits and operated circuits ect. The electrical principle diagram is shown as Fig 1:

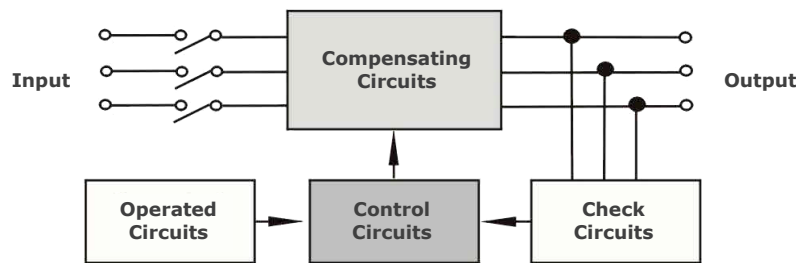


Fig 1 Electrical principle diagram of Self Compensating Supply voltage stabilizer. The primary winding connection of control and transforming voltage regulator AT is in Y-shape connected to the output end of voltage stabilizer, and connecting transformer is series- connected in the main circuit, taking phase A as an example to indicate the working principle of the voltage stabilizing as shown in Fig 2. If the voltage drop of the impedance of the compensating transformer is negligible, it can be seen from Fig 2:

$$U_{out} = U_{In} + \Delta U$$

Where: U_{In} - input voltage of phase A of the stabilizer;
 U_{out} - output voltage of phase A of the stabilizer;
 ΔU - compensating voltage of phase A of the stabilizer;



SBW-50KVA SBW-100KVA

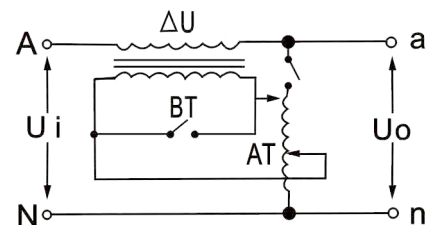


Fig 2 Compensating Circuit Principle

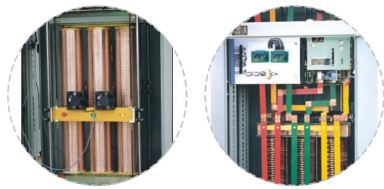
The principle is: when input voltage U_{In} phase A increase ΔU_{In} compensating voltage ΔU

SBW series

Superpower Voltage Regulator



SBW-600KVA



SBW-600KVA



SBW-300KVA

DISPLAYS FOR SELECTION



TECHNICAL PARAMETER

Specification		SBW-20KVA	SBW-30KVA	SBW-50KVA	SBW-100KVA	SBW-150KVA	SQW-180VA	SBW-200KVA	SBW-250KVA	SBW-300KVA	SBW-350KVA	SBW-400KVA	SBW-500KVA	SBW-600KVA	SBW-1000KVA
Input	Phase	Three phase													
	Voltage	304V-456V													
	Frequency	50Hz / 60Hz													
Output	Voltage	380V±3%													
	Frequency	50Hz / 60Hz													
Protection	Low Volt.	318V±7V													
	Over Volt.	426V±7V													
	By Pass	Yes (AUTO/MANUAL OPTIONAL)													
	Over load/short circuit	Yes													
Packaging	pcs per carton	1												2	
	Shipping Wt. (KG)	240	280	330	480	780	850	950	1050	1180	1300	1400	1600	1860	2500
	Package Dimensions (mm)	660*1480*890			750*970*1625	875*1940*1250			1355*1060*2270			1360*1215*2350			
Efficiency	AC-AC	>95%													
Acoustic	Noise Level	≤50dB													
Environmental	Temperature	-5℃~45℃ Degree													
	Humidity	20% to 90%													

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