

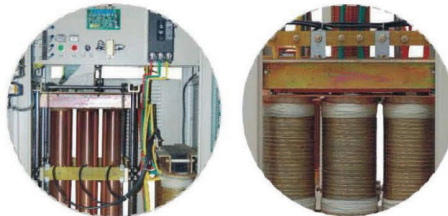
# SBW series

## 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-200KVA

### 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:

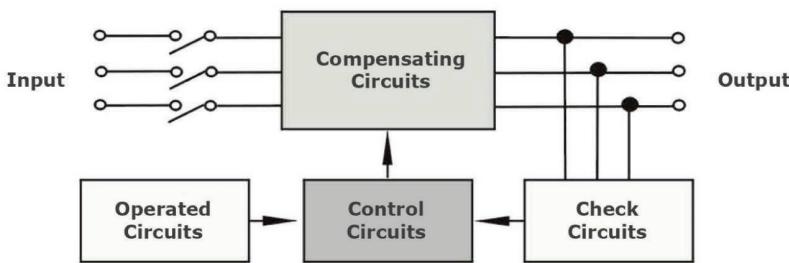


Fig 1 Electrical principle diagram of Self Compensating Supply voltage stabilizer. The primary winding connection of control and transforming voltage regulator AT is in Y-shape connected to the output end of voltage stabilizer, and connecting transformer is series- connected in the main circuit, taking 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;  
 $\Delta U$  - compensating voltage of phase A of the stabilizer;

The principle is: when input voltage  $U_{In}$  phase A increase  $\Delta U_{In}$  compensating voltage  $\Delta U$

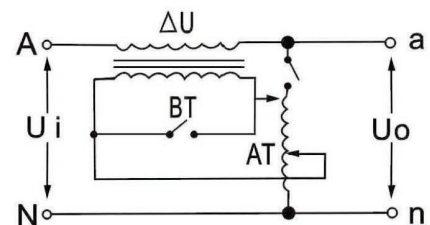
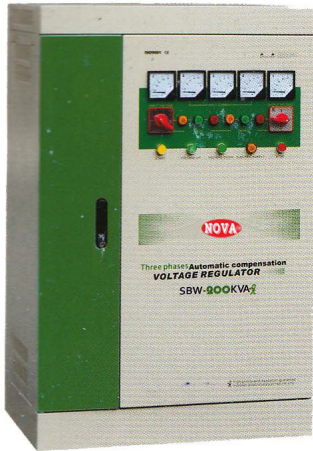


Fig 2 Compensating Circuit Principle

# SBW THREE PHASES Series

COMPENSATED POWER VOLTAGE REGULATOR

SBW three phases AC voltage stabilizer is a contact adjustable automatic voltage compensation high power regulating power device . When voltage from support network is varied due to loading current effected , it automatically regulates the output voltage to ensure the normal function of the varied of electric equipments. This series product compared with other types of voltage regulator , it has large capacity , high efficiency ,no waveform distortion , stable voltage regulation and other advantages , it supports widely load applied . stand by the instantaneous overload and continuous long work, manual/auto switch, can provide over voltage、lack phase、phase order and machine faulty automatically protect. Conveniently assemble and reliably operating(can be made digital display/analog display)



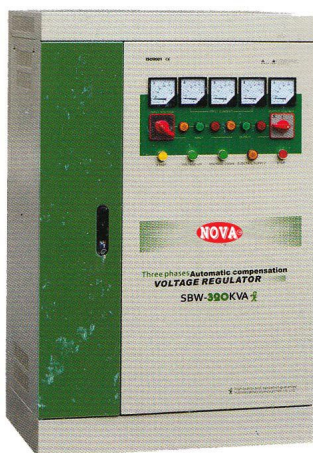
SBW-200KVA



## SPECIFICATIONS:

INPUT VOLTAGE	Single phase :175V-265V Three phases :300V-456V
OUTPUT VOLTAGE	Single phase :220V Three phases :380V
OUTPUT DEVIANCE	1-5% Adjustable
FREQUENCY	50HZ~60HZ
EFFICIENCY	≥95%
RESPONSE TIME	≤1.5S
AMBIENT TEMPERATURE	-10℃~+40℃
INSULATION RESISTANCE	≥5MΩ
OVERLOAD	DOUBLE RETED CURRENT,ONE MIN
WAVEFORM DISTORTION	NON-LACK FIDELITY WAREFORM
PROTECT	OVERVOLTAGE、OVERCURRENT、LACK PHASES

## OUTLINE & PACKING



SBW-320KVA

MODEL	OUTPUT POWER(KVA)	OUTLINE(CM)	WEIGHT(KG)
SBW-50K	50	80X54X135	250
SBW-60K	60	80X54X135	255
SBW-100K	100	85X62X150	357
SBW-150K	150	100X70X165	482
SBW-180K	180	100X70X165	515
SBW-200K	200	100X70X165	562
SBW-225K	225	110X80X185	670
SBW-250K	250	110X80X185	710
SBW-300K	300	110X80X195	755
SBW-320K	320	110X80X195	810
SBW-400K	400	100X80X200 Double cabinets	1175
SBW-500K	500	100X80X200 Double cabinets	1510
SBW-600K	600	100X80X200 Double cabinets	1790

