

## DBW, SBW series AC voltage regulator



### Product overview

DBW, SBW series automatic compensation voltage regulator can automatically keep the output voltage stable when the voltage fluctuation is caused by the fluctuation of grid voltage or load. The voltage regulator has the advantages of large capacity, high efficiency, stable voltage regulation, no waveform distortion, wide application load, long-term continuous work, automatic and manual switching at will, easy to use and so on. It can be widely used in industrial, agricultural, post and Telecommunications fields of large mechanical and electrical equipment and other places that need voltage stabilized power supply. The product meets the standard of JB / T 8749.8.

### Guide to selection

S ( D ) BW	F	50	kVA
Product model	Derived code	Rated capacity	Capacity unit
S: three phase D: single phase B: compensation type W: voltage regulator	F: split mode C: LCD type S: bypass output	50 100 ... 1800	kVA

### Normal working conditions and installation conditions

The voltage regulator should be used indoors, and the normal conditions of use are as follows:

- ☐ ambient temperature:  $-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$
- ☐ altitude: altitude not exceeding 1000m;
- ☐ relative humidity:  $\leq 90\%$  ( $20^{\circ}\text{C}$ );
- ☐ Installation environment: the installation site shall be free of gases, vapours, chemical deposits, dust, dirt and other explosive and erosive media that seriously affect the insulation of the voltage regulator;
- ☐ where the special conditions for use that do not meet the above provisions shall be determined by the user unit in consultation with our company.

### Product characteristics

#### With boot delay function

When the voltage stabilizing state is running, press the voltage stabilizing button and adjust the voltage regulator to the steady voltage rating value (for a few seconds) before there is an output voltage supply device.

It has the function of output overvoltage protection and alarm.

In the voltage stabilizing state, when the input voltage far exceeds the input voltage range ( $304\text{V} \sim 456\text{V}$ ) or other reasons cause the output voltage of the voltage regulator to overvoltage ( $426\text{V} \pm 7\text{V}$ ), the voltage regulator cuts off the power supply and alarms, and automatically resumes its work when the output voltage is reduced. Has the function of phase sequence protection, when the input three-phase line is wrong or broken, the protective relay can act and cut off the power supply without output.

(the user needs this feature must be proposed in advance).

# VOLTAGE REGULATOR

## Main technical data

Product specifications and main technical indicators are shown in Table 1

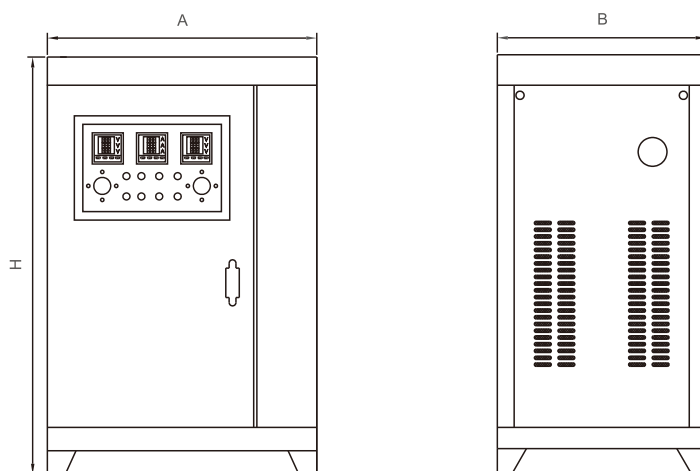
Table 1

Type	Rated capacity kVA	Output current A	Phase number	Input voltage V	Output voltage V	Voltage stabilization accuracy	Overvoltage protection V	Withstand voltage	Insulation resistance M Ω	Efficiency	Working frequency Hz
SBW-20	20	31	three phase	304 ~ 456	380	±3%	426±7	2000V 1min No breakdown	≥5	≥ 97%	50 ~ 60
SBW-30	30	46									
SBW-50	50	76									
SBW-100	100	152									
SBW-180	180	273									
SBW-225	225	342									
SBW-320	320	487									
SBW-400	400	606									
SBW-600	600	910									
SBW-800	800	1212									
SBW-1000	1000	1515									
SBW-1200	1200	1818									
SBW-1800	1800	2700									
DBW-20	20	91	single phase	176 ~ 264	220	±3%	246±4	2000V 1min No breakdown			
DBW-30	30	137									
DBW-50	50	228									
DBW-100	100	455									

## OUTLINE DIMENSIONS ( See table 2)

Table 2

Model	Outline dimension(A×B×H)mm	Number of enclosures
SBW-20~50kVA	800×570×1270	1
SBW-75~ 100kVA	850× 620×1370	1
SBW-150~200kVA	1000×700×1500	1
SBW-250kVA	1050×800×1600	1
SBW-300kVA	1100×850×1800	1
SBW-400kVA	1200×950×2050	1
SBW-500~600kVA	1100× 1300×2100	1
SBW-800~ 1200kVA	1000×1230×2050	3
SBW-1800kVA	1200×900×1900	4
DBW-20~50kVA	800×570×1270	1
DBW-100kVA	850×620×1370	1



Schematic diagram

### Instructions for ordering

- ☐ When ordering, the product model, capacity, rated output voltage, input voltage range, voltage stabilization accuracy, power input (output) distance and other operating conditions should be described.
- ☐ If you have any special requirements, please consult with our technical department.