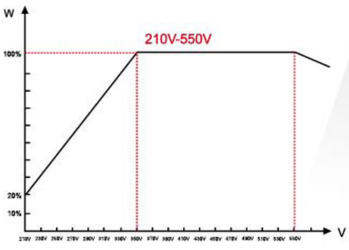
# SBW Series

## Superpower Voltage Regulator

SBW-600KVA

SBW-50KVA
SBW-100KVA

SBW-50KVA
SBW-100KVA




SBW-600KVA

## TECHNICAL PARAMETER

| Specification | | SBW-20KVA | SBW-30KVA | SBW-50KVA | SBW-100KVA | SBW-150KVA | SBW-180KVA | 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 | | | | | | | | | | | | | |
| Protection | Voltage | 380V ± 3% | | | | | | | | | | | | | |
| | Frequency | 50Hz/60Hz | | | | | | | | | | | | | |
| | Under 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 | | | 750x870x1625 | 875 x 1940 x 1250 | | | | 1355 x 1060 x 2270 | | | 1360 x 1215 x 2350 | | |
| Efficiency | AC-AC | >95% | | | | | | | | | | | | | |
| Acoustic | Noise level | ≤50dB | | | | | | | | | | | | | |
| Environmental | Temperature | -5℃~45℃ | | | | | | | | | | | | | |
| | Humidity | 20% to 90% | | | | | | | | | | | | | |

**Manufacturer: ZHEJIANG SAKO ELECTRICAL CO.LTD. Sole Distributer: Unicol Bangladesh (URL: www.unicolbd.com)**


# SBW Series

## Superpower Voltage Regulator


## MAIN FUNCTION

- Super capacity, high precision
- Adopted compensate voltage technology
- Wide input voltage range
- Over voltage protection
- Output voltage three phase auto-balance
- With bypass system

  Anolog, LED, LCD display optional


SBW-50KVA
SBW-100KVA

SBW-150KVA

SBW-300KVA

## WORKING PRINCIPLE

The stabilizers consist of compensating circuits, control circuits, check circuits and operated circuits etc. the electricalprinciple diagram is shown as Fig 1:

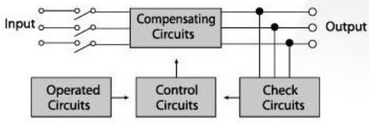



Fig 1 Electrical principle diagram of Sef Compensation Suplly voltage stabilizer The primary winding connection of control and transforming voltage regulator AT is in Y shape connected to the output end of voltage stabilizer and connecting transformer is series-connected in the main circuit, taking phase A as an example to indicate the working principle of the voltage stabilizing as shown in Fig 2.If the voltage drop of the inpedance of the compensating transformer is negligible, it can be seen from Fig 2: $U_{out} = U_{in} + \triangle U$

Where: $U_{in}$– input voltage of phase A of the stabilizer;

$U_{out}$– output voltage of phase A of phase A of the stabilizer;

$\triangle U$ – compensating voltage of phase A of the **stabilizer;**

the principle is: when input voltage uin phase A increase $\triangle U_{in}$compensating voltage $\triangle U$

**Renark: (the obove is the principle of anologe display)**

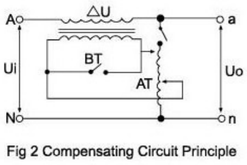



Fig 2 Compensating Circuit Principle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