

More **POWER** by

Saving **ENERGY**





Yaskawa

Voltage Regulation

Yaskawa Group

Founded in 1979 as a manufacturer of transformer based power -conditioning equipment ,we designs ,prototypes and custom power requirements for a wide variety of customers and markets . Our core productsIndustry-Specific Power Conditioner ,Transformers and Reactors ,Power Quality Solutions Our missionTo help our customers make their products more competitive and reliable by engineering and manufacturing innovative custom power solutions manufactures.

**Quality
Power for
Reliable
Business**

**Your best choice for
voltage regulation
and isolation**

STB-33

Features:

- Extremely wide voltage regulation range
- Maintenance free roller type carbon brush
- Individual regulation with unique small dimension
- Maximum capacity up to 2,000KVA
- Long MTBF time
- Reliable and quiet servo motors
- Wheels mounted for easy installation
- Start up delay to prevent over current inrush
- Isolation transformer on request
- Indoor or outdoor version on request



The MODERN range of AC Power Conditioners(Voltage Stabilizers) are universally recognized as the finest range of servo-controlled voltage stabilizers. The units couple exceptional performance with unequalled build quality to provide an unmatched combination of reliability and versatility. The units are designed to correct power quality problems like brownouts, surges, over-voltage, sags, voltage imbalance, unbalanced current, line noise etc. in the main power supply. Our Power Conditioner features voltage regulation, isolation, filtering, harmonic cancellation, transient suppression, surge protection, or any combination of these in a one-box solution. Besides that, our patent voltage regulating transformer enabling us to make unique small dimension Power Conditioners especially for individual regulation.





Yaskawa Stabilizer

Weight (Kg)	Dimesion	Start Power (kVA)	Power (kVA)	Current (A)	Ferecance (Hz)	Accuracy	Output Voltage	Input Voltage	Model	
180	30 x 65 x 103	84	30	40A	40 - 60	± 1%	380	280-450	STB-33-30kVA	1
210	30 x 65 x 103	140	50	75A	40 - 60	± 1%	380	280-450	STB-33-50kVA	2
230	30 x 65 x 103	224	80	120A	40 - 60	± 1%	380	280-450	STB-33-80kVA	3
310	38 x 78 x 123	280	100	150A	40 - 60	± 1%	380	280-450	STB-33-100kVA	4
435	46 x 90 x 156	420	150	227A	40 - 60	± 1%	380	280-450	STB-33-150kVA	5
500	46 x 90 x 156	560	200	300A	40 - 60	± 1%	380	280-450	STB-33-200kVA	6
690	55 x 95 x 173	840	300	450A	40 - 60	± 1%	380	280-450	STB-33-300kVA	7
910	65 x 105 x 202	120	400	600A	40 - 60	± 1%	380	280-450	STB-33-400kVA	8
1010	65 x 105 x 202	1400	500	750A	40 - 60	± 1%	380	280-450	STB-33-500kVA	9



Automatic Voltage Regulator Specification

Model	STB-33
Capacity	50-500KVA
Input voltage	Phase to phase: 380V±1-5%
Output voltage	Phase to phase: 0-380V
Frequency	50Hz
Insulation resistance	≥2M Ω
Noise	<55dB
Voltage regulation mode	Independent phase regulation
Wave deformation	nil
Insulation class of transformer	H class
Wire system	3-phase-5-wire-system
Operation time	≥80,000 hours
The number of carbon brush abrasion	140,000 times with only about 0.01mm roller carbon brush abrasion
Method of voltage regulation	By Rotation Of Converter
Insulated strength	Single phase: 2000V/1min without puncture Three phase: 2500V/1 min without puncture
Material of package	Carton for batch volume, wooden packing for small volume
Output accuracy	Selectable: ±1% to 5% Factory preset: ±2% Long term stability: <±2.0%
Efficiency	>96%
Color of housing	Beige
Protection class	IP20(indoor)
Electrical safety	CE equivalent
Ambient temperature operating	-20 °C to +45 °C
Altitude	<1000m
Relative humidity	<90%
Functions	Power-on style, Surge Protection, Malfunction protection, Short-circuit protection, Lack of phase protection, Over voltage shutdown, Under voltage shutdown, Safe start

Technical Parameter

Input Voltage	STB-11	STB-33
	220±15%,20%,30%,50%	380±15%,20%, 25%30%,50%
Output Voltage (Preset at 1.5%)	220Vac±1-5%	380Vac±1-5%
Regulation Type	Single phase	Three phase independently adjusted
Efficiency	>98%	
Precision	1-5%	
Frequency	47-53Hz	
Response Time	<0.5S/20V(Line Voltage)	
Insulated Strength	2000V/1 minute without puncture	2500V/1 minute without puncture
Insulated Resistance	>2MΩ	
Wave Deformation	Nil	
Isolation transformer	Optional	
Surge Protection	Optional	

Model & Specifications

Phase	Model	Rated Capacity(KVA)	Dimension(H×W×D)mm	Cabinet(QTY)
Single Phase	STB-11-10	10	1020×300×700	1
	STB-11-15	15	1020×300×700	1
	STB-11-20	20	1020×300×700	1
	STB-11-30	30	1020×300×700	1
	STB-11-50	50	1120×380×750	1
	STB-11-80	80	1220×400×780	1
	STB-11-100	100	1220×400×780	1
	STB-11-150	150	1420×450×930	1
Three phase	STB-11-200	200	1420×450×930	1
	STB-33-10	10	1020×300×700	1
	STB-33-20	20	1020×300×700	1
	STB-33-30	30	1020×300×700	1
	STB-33-50	50	1120×380×750	1
	STB-33-80	80	1220×400×780	1
	STB-33-100	100	1220×400×780	1
	STB-33-150	150	1420×450×930	1
	STB-33-200	200	1520×520×980	1
	STB-33-300	300	1720×600×1380	1
	STB-33-500	500	1860×720×1580	1
	STB-33-800	800	1860×900×1080	1
	STB-33-1000	1000	1860×900×1080	2
STB-33-1500	1500	1860×900×1080	3	
STB-33-2000	2000	1860×900×1080	3	



Overview

A transformer is consisting of ferromagnetic core and coil. It is important component in various modern electrical and electronic systems. We have advanced technology and imported equipments and made of high quality silicon sheet, copper enamel insulated wire(or high quality foil), insulation material and optimal design. Applied with arranged non-bobbin coil winding technology and vacuum pressure impregnating(VPI) process, the transformer insulation class up to H or C.

Types

■ Isolation Transformer

Used to establish a new neutral-ground bond in order to correct common mode and other grounding problems. A transformer can provide conversion of a Delta system (3 wire) to a Wye connected (4 wire) system. A shielded isolation transformer provides excellent protection from all types of N-G disturbances (impulses, RMS voltage, and high frequency noise). It also protects against voltage transients and spikes while offering full galvanic isolation, traps 3rd harmonic and triplen harmonics.

■ Buck & Boost Transformer(two coils type)

Used for power increase or decrease, and has isolation.

■ Auto Transformer(one coil type)

Used for power voltage increase or decrease. It is more cost saving than buck and boost transformer but has no isolation.

■ Special Transformers

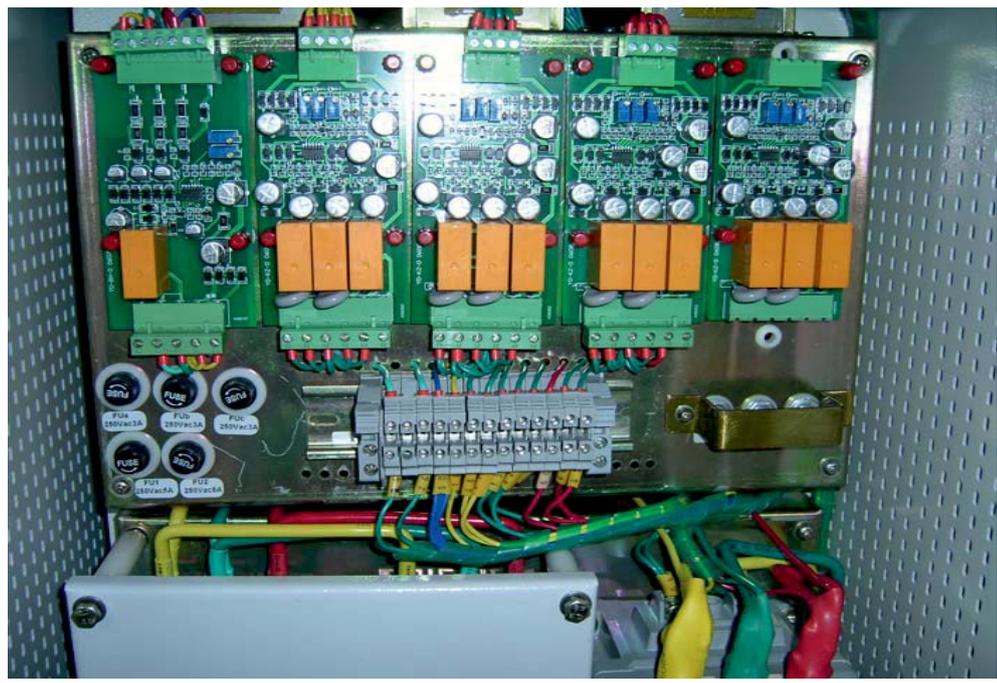
We also design and manufacture special transformers like: control transformer, coupling transformer, UPS transformer, vector transformer, shifter transformer, variable transformer etc.

The specifications of the transformers as input and output, capacity, voltage, current, frequency(40~650Hz), temperature rise, insulation class and noise and so on can be custom designed.





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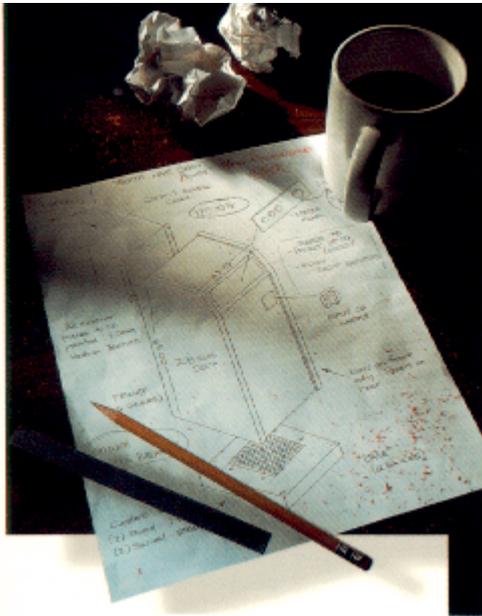


We use the latest imported electrical parts ,which have been selected and through the aging tests by integrated circuit tester .With outsourced SMT technology ,the reliability and supply of PCB will be highly improved .





R&D



- **R&D Staff** :20-30
- **Patents and Awards** : Over 20 Practical New advanced Patents ,6 Appearance Design Patents ,UL ,National Key New Product
- **Machinery/Equipment for R&D** :Power Quality Analyzer, Coil Turns Tester ,Core Loss Tester ,Voltage-Withstand Tester ,Variable Frequency Power Supply and more.
- **Strict management and long-term development plan**



Quality Control

• QC/Technical Support :

We produce according to IEC requirements and we are an ISO9001:2000 company .We perform strict quality control during manufacture and service.

• Procedures/testing Details :

We are very careful when choosing raw materials and components .We strictly abide by the technical principle and we perform strict quality control during manufacturing , packing and service.

•Origin of Materials and Components :

Selecting the most qualified Electronic components, adopting the best material to meet quality standard of products.





OEM/ODM

- **OEM/ODM turnover** :20 million USD plus
- **Staff Details** :

Production Staff	200 plus
QC Staff :	20 plus
R&D Staff :	20-30
- **Major Markets** : Europe ,Africa ,South Asia ,South East Asia etc.
- **OEM/ODM Experience** : Established since 1979 and with more than 20 years of experience in designing ,manufacturing and sales , Stabilizer, Inverter, voltage regulation ,isolation ,filtering ,harmonic cancellation, transient suppression surge protection Our manufacturing facility is equipped with all sophisticated machines and instruments required in the production of high quality power supplies .We have adequate production capacity ,which helps us to execute both high volume as well as small specialized job.



Medical Specific Power Conditioner

The requirement of high quality main s supply for modern computerized medical equipment is high .Electrical noise and transients on the line can cause "artifacts "in the digit al image which may result in misdiagnoses .Maintaining correct incoming mains supply to many types of medical imaging equipment is crucial to obtaining consistently usable exposures .

We have for many years manufactured power conditioner for medical system used to provide clean power to medical imaging and therapy equipments .Applications include CT ,MR ,X-Rayetc .Back from 1992 , we are the first batch of power conditioner supplier for GE Health Care .World famous Phillips ,Hitachi ,and Shimadzu also adopt our products.

