

Your First Source for Stabilizer and Voltage Regulator



Stabilizers | Voltage Regulators | Transformers | Reactors | Filters | Power Resistors







YASKAWA STABILIZERAND VOLTAGE REGULATOR, EXPERIENCE FOR CREATING INNOVATIVE TECHNOLOGY

We are committed to contributing to the further evolution of our society by strengthening our core business of "stabilizer", "voltage regulator", "servo motor" "controller", "AC Drives" and "industrial robots" and by offering customers new solutions using these core technologies to the full.

We place value on manufacturing and development of human resources and create new markets.



Our quality management system was certified according to DIN EN ISO 9001 in 1993. This ensure you that our customer, receive only the highest quality products besed on certified quility standards. By choosing Yaskawa you can be rest assured that you have chosenthe right partner. You will find our commitment to quality not only on paper but in every contract, every single product we deliver.

Facts:

Our products offer solutions for electrical test engineering, voltage stabilization and transformers, reactors and filters encompass power outputs from 200 VA to 8 MVA and voltages up to 36 kV:

- Electrical test engineering
- Voltage optimization
- Low-voltage and medium-voltage transformers
- Variable transformers
- Toroidal core transformers
- Reactors
- Filters



Power resistors:

Our test and power resistors cover a spectrum from 50 W to 5 MW:

- Load resistors
- Variable resistors
- Brake resistors
- Earthing resistors



We offer Stabilizer solutions

Yaskawa Voltage Stabilizers are universally recognized as the finest range of servo-controlled voltage stabilizers. The units are designed to correct power quality problems like brownouts, surges, over voltage, sags, voltage imbalance, unbalanced current, line noise etc.



Comprehensive product line

"Reliability, to our team, means much more than just coming to work on time. Being there for others, helping each other and sharing individual experience goes without saying for everyone here."

Sabine Thiele, Design Engineer mechanical Design

Facts:

Power up to 2 MVA or 1 MW

Voltage up to 30,000 V

Current up to 30,000A

Optionally available:

- Control panels with fuses, contactors, operation and monitoring elements
- Controller for switching, regulation, control and monitoring of relevant processes





Products:

AC/DC power supplies AC high-current supplies Test resistors Inductive load banks RLC load banks

Applications:

Drive technology Cable testing

Renewable energies Switchgear temperature rise tests

E-mobility



Rock-solid technology for every application

"We do not rest on the laurels of our success. Our goal is the continuous development of electrical engineering technology and the improvement of our products. This commitment is appreciated by our customers throughout the entire world."

André Witt, Project Manager Transformers



Facts:

Power up to 2,000 kVA Voltage up to 20 kV Voltage stabilization up to ± 1%

Products:

- Magnetic voltage stabilizers
- Transformer-type voltage stabilizers
 - Certified for use in nuclear power plants
 - Optionally available in earthquake-proof design



DeltaVolt voltage regulation system:

DeltaVolt monitors and controls the supplied mains voltage and ensures that it remains at a constant level that is ideal in terms of business and technical requirements.

DeltaVolt systems from Ruhstrat reduce your energy costs:

up to 20% in lighting systems up to 10% in general loads





The cheapest electricity is that which you don't use.

At Home here and around the world

"Reliability, to our team, means much more than just coming to work on time. Being there for others, helping each other and sharing individual experience goes without saying for everyone here."

Sabine Thiele, Design Engineer mechanical Design



Yaskawa|Welcome

Facts:

Execution as auto- and isolation transformers Available as limb and toroidal core transformers Power up to 8 MVA Voltage up to 36 kV

Current up to 30,000 A

Frequencies up to 800 Hz

Copper and aluminium windings

Energy-efficient transformers with amorphous core



Products Low-voltage transformer

Low-voltage transformer Cast resin transformer Toroidal core transformer High-current transformer



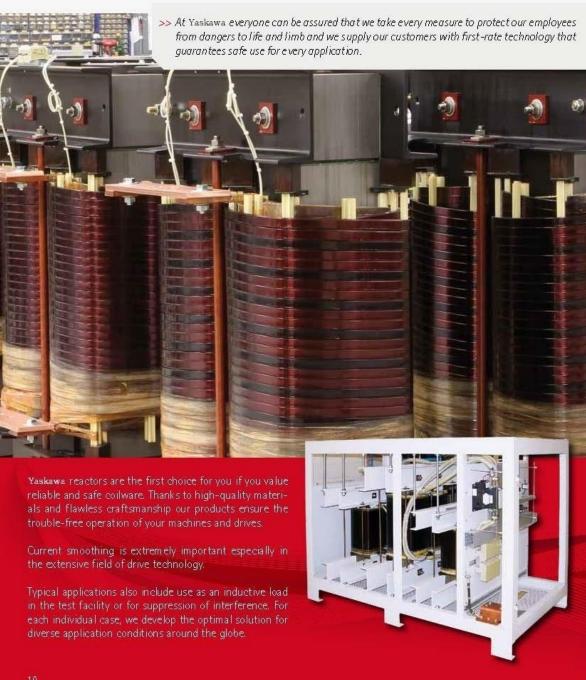






Careful work results in sound

"Our top priority is to manufacture safe equipment for our customers. To achieve this, we exercise maximum care in our work. It is a good feeling that optimal work safety is so important to our company." Peter Ducksch, Manager Production Sector Transformers



Facts:

Reactors up to 3,000 A with selectable inductance values Filters up to 2,000 A

Rated frequency of AC reactors 16 % Hz to 400 Hz

Voltage range of filters up to 690 V

Pulse frequency of filters up to 10 kHz

Low-loss and low-noise filters





Products:

Power reactor Smoothing reactor Compensation reactor Filter circuit reactor Motor reactor Sinus filter dU/dt filter





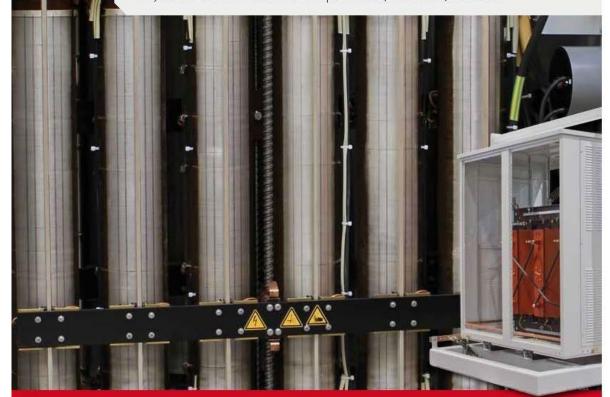


Excellence is our standard

"In the construction of transformers we of course cannot afford to deviate from the standards. But when it comes to our ideas, we do not hesitate to force an open door." André Männecke, Project Manager Transformers

>> Our exemplary in-house suggestion system allows us to gather the best ideas where people use their heads to do things even better.

And the one who benefits in the end is you, our customer.
For you we strive to offer even more: more performance, more service, more value.



Variable transformers from Ruhstrat for the power supply of diverse products are preferred for use in test engineering, the glass industry, as well as in electroplating applications.

In these areas, too, all solutions are tailored to individual customer requirements.



Whether for test facilities, the glass industry, electroplating or regulation of industrial furnaces - Yaskawa develops and manufactures specific variable transformers for continuously variable adjustment of voltages up to 30,000 volts and currents up to 30,000 amperes.

Facts:

Available as variable toroidal and variable column transformers

Also available as avariable transformer aggregate in combination with a low-voltage, medium-voltage or high-current transformer

Power up to 2,000 kVA

Voltage up to 30 kV

Frequencies up to 400 Hz

For electrical test engineering available with:

- Control panels with fuses, contactors, operation and monitoring elements
- Controller for switching, regulation, control and monitoring of relevant processes









For your technical testing systems we offer you a complete line of transformer-controlled test engineering, including electronic controllers (SIEMENS, Beckhoff, etc.) if requested. For more information, see page 4/5.



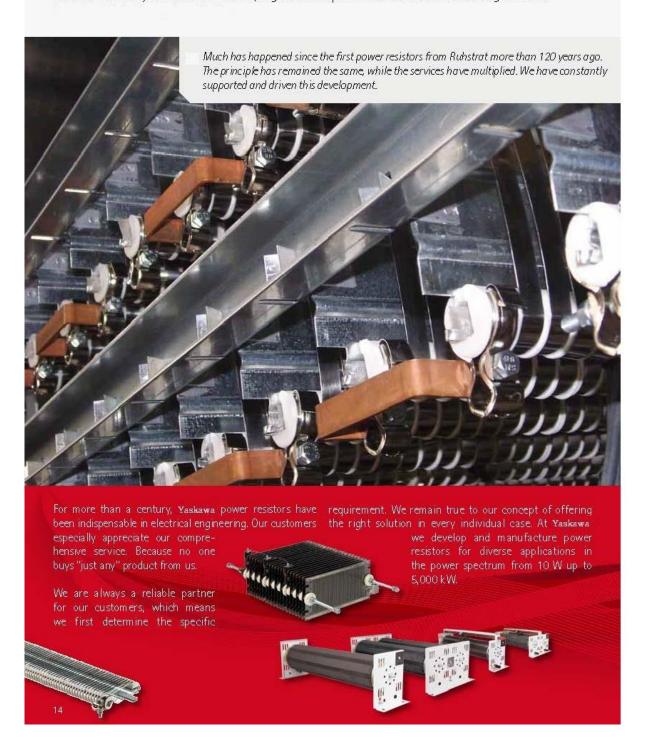




13

Why I like working at Yaskawa

"Why I like working at Yaskawa Because every one of us strives every day to do things better.
Because we are truly there tor our customers, to give them help and advice. And because we are a great team!"



Facts:

Power up to 5,000 kW

Optionally available:

- Control panels with fuses, contactors, operation and monitoring elements
- Controller for switching, regulation, control and monitoring of relevant processes





Products:

Load resistor/ load bank

Ohmic, inductive or capacitive

load resistor

Discharge resistor

Damping resistor

Braking resistor

Starting resistor

Earthing resistor

Tube resistor

Variable resistor (potentiometer)





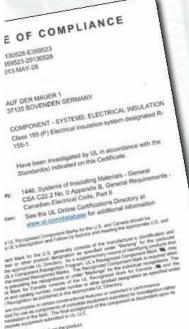
A successful audit is only half the truth. The goal at Ruhstrat is continuous improvement of all processes and products " resulting in satisfied customers. The audit is then basically the positive confirmation of our conscient iousness." Antje Duderstadt, Quality Management



In Our eyes you are the king

in addition to uncompromising product quality, Ruhstrat customers experience genuine service, just like in the old days. On request, we offer individual, on-site consultation, develop customized turnkey solutions and install them, as well.

And after completion of the project you are not left alone: our after-sales service includes maintenance and repairs according to your specific requirements – also available on the basis of service contracts. Our experienced service teams ensure global supply.



Consultation – also on your premises

Planning – in close coordination with you

Development – individual and
customized

Implementation – professional and
from a single source

Installation, maintenance, repair –
around the globe, by our specialists



"What makes a good workplace for me? Modern and safe working conditions.

Mutual respect throughout the hierarchy. Opportunities for development. A steadfast smile among the team when there is lots to do."



At Yaskawa we place strong emphasis on the well-founded training and development of our employees. To meet our social responsibility and to cover our own needs, we have a constant training rate of 10 to 15 percent.

Our trainees – like our products and our customers, of course – benefit from the rich store of experience and extensive expertise of our designers, engineers, programmers and specialists.

Team spirit throughout the entire company is perhaps our greatest strength.



Technology lives on innovation

Our company contributes actively to the Central Association of the German Electrical and Electronics Industry (ZVEI) and cooperates intensively with universities, technical colleges and research institutes. This sustainable process of exchange is a constant source of new impulses in our own research and development.

Current scientific research has also led to our state-of-the-art production facilities – including the production technology and machine park. It is characterized by short distances, intelligent logistics and the effective coordination of development, production and administration.





Facts:

Our production facilities:

Vacuum drying ovens

Cranes, 2/5/10 ton

Vacuum impregnating system

Vertical edgewise winding machine

Band and wire winding machines

Toroidal core winding machines

Modern test facility for product inspections in accordance with relevant standards

Test system for PD measurement





Yaskawa|Welcome



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











Yaskawa Stabilizer



Technical Parameter

Input Voltage	STB-11	STB-33		
input voitage	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	- A		
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
'na	STB-11-80	80	1220×400×780	1
se	STB-11-100	100	1220×400×780	1
	STB-11-150	150	1420×450×930	1
	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
Three phase	STB-33-100	100	1220×400×780	1
ee.	STB-33-150	150	1420×450×930	1
팢	STB-33-200	200	1520×520×980	1
ase	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









Automatic voltage regulator

DESCRIPTION

	DECORIT FIGH			
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 Single phase: 2000V/1min without puncture Three phase: 2500V/1 min without puncture Carton for batch volume, wooden packing for small volume			
Insulated strength				
Material of package				
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			













Stabilizers
Voltage Regulators
Tranformers
Reactors Filters
Power Resistors

