

STATIC DIGITAL VOLTAGEREGULATION

"Effectual with extremely ultra fast speed of response – reliable voltage correction solutions for criticalloads and applications"

FEATURES

•Automatic Voltage Regulation

Digitally controlled voltage stabilisation

•Reliable Voltage Correction

Maintenance-free Thyristor Technology

•Design Features

Customizable structure for customer demands

• Wide Range of Power Ratings

Three Phase 200 to 3500Kva

• Choice of Input Voltage Ranges

"Low Voltage up to 60%.

High Voltage up to 45%."



ISO 14001

CE

ISO 9001

OHSAS 18001

STK

THREE PHASE 4 WIRE WITH NEUTRAL

STATIC ELECTRONIC AC VOLTAGE STABILIZERS / REGULATORS

AC THREE PHASE - 200 TO 3500 kVA

Models: 380/220V - 400/230V - 415/240V - 50 or 60Hz



• Accurat Output Voltage Regulation

" $\pm 2\%$ (Default) - adjustable from $\pm 2\%$ to $\pm 6\%$, (dependent on input swing)."

• Switch-on Delay

Protects loads against harmful high-energy surges, transients and spikes.

•Independent Phase Balancing & Control

Independent phase voltage sensing and control to ensure the individual phase voltages remain stable -regardless of load unbalance .

•Phase Failure Protection Protection of the load in the event of phase failure.

• Digital LCD Monitoring Panel

All operating parameters can be monitored from this panel and some operating parameters can be adjusted.

• Optional Accessories

Isolation Transformer, Outdoor Enclosures, Output Circuit Breaker, Lightning Surge Arrestors.

- **STABLE AC MAINS SUPPLY VOLTAGE** : When the needs for an ultra-fast speed of response, STK stabilizers comes to take the action of providing a continuously stable voltage for the load..

STK Static Electronic Digital AC Voltage Stabilisers continuously monitor the incoming supply. When the incoming voltage should rise or drop, the Stabilisers will automatically control the output to ensure the voltage reaching the load equipment always remains constant at the requisite voltage.

- Built-in protection ensures the load is continuously protected against harmful mains born high energy spikes and surges.

- Compact in size and quiet in operation

TECHNICAL SPECIFICATION

WORK TECHNIQUE

Microprocessor Controlled Thyristor Technology

Thyristor Configuration

6 Thyristor 8 Thyristor 10 Thyristor

Input Voltage Swing Variant Options Available:

Swing Model No A*	Window
A 1	275 - 435 V AC
A 2	310 - 450 V AC
A 3	220 - 400 V AC

Output Voltage:

Presetable for any voltage between 380/220V, 400/230V & 415/240V

Output Voltage Accuracy:

± 2%

Frequency:

50 HZ ± %5

Overload Capacity:

10 seconds. 200% load

Efficiency:

> 95% At full load

Response Time:

20 msec

Correction Speed:

500 Volt / Second

Output Delay Time Set

Numerical ability to pre-set menu

Manuel By-Pass

Manuel main-voltage regulator selective interruption switch

Environment:

Temperature range 0 to 50 °C, Suitable for indoor use, Maximum altitude 2000m.

Construction:

Free standing enclosures to IP20
IP54 Enclosures available as an option.

Paint Colour:

As standard RAL 7024 (Graphite Grey) - Epoxy Powder Coating. Other colours available as an option on specific request.

Cooling:

Forced air cooling with thermostat controlled fan

Standard Features:

Input Circuit Breaker
Output Contactor
Over/Low Voltage Protection
Phase Failure Protection
Front Status LCD Panel with Voltmeter

LCD DIGITAL DISPLAY AND CONTROL PANEL

Display of

Input Voltages
Output Voltages
Load Amperage
Temperature

Modifiable Parameter

Delay time

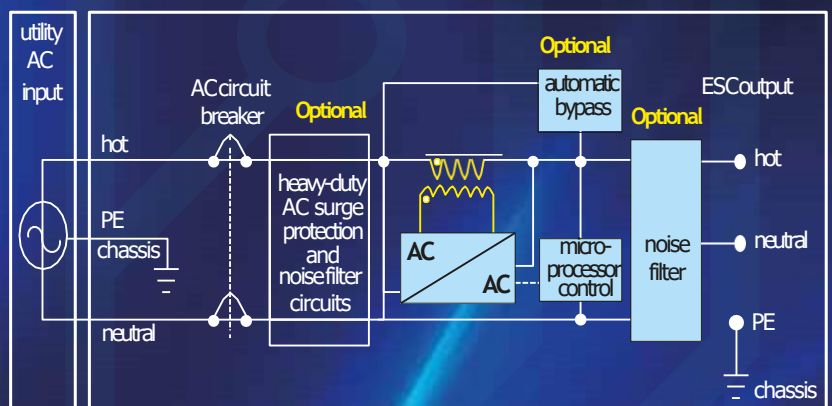


Automatic Electronic Bypass, the automatic bypass maintains power to the load and unit functionality, except regulation, in the event of a problem.. (available on individual request / quotation)

Surge Arrester-High Voltage Protection, Surge arresters can be placed at the inputs and outputs of the stabilizers for protection against high-energy surges, transients and spikes... (available on individual request / quotation)



STK Static Voltage Regulators utilise SCRs (Silicon Controlled Rectifiers) to select transformer taps to deliver a highly stable output voltage with an extremely fast correction time.





TYPICAL APPLICATIONS

- Computers & Network Systems
- Medical Equipment
- Electronics Equipment
- Testing Equipment
- Laboratory Equipment
- CNC & SMT Equipment
- POS Terminals
- Process Control Systems
- TV/Radio Broadcasting Stations
- Audio/Video Systems
- Security Systems
- Elevators / Lifts
- Production Line
- SMT Equipment

PRODUCT SELECTION TABLE

MODEL (A* Swing to be specified - A1 , A2 ,A2)	kVA	Max Ratings (AmpPer Phase)			Dimensions & Weight
		380 V	400V	415 V	
STK-200 -3P-A*	200	242,4	231,9	222,2	Dimensions & Weights available on Request - according to the A* Swing Model Variant required
STK-250 -3P-A*	250	303,0	289,9	277,8	
STK-300 -3P-A*	300	363,6	347,8	333,3	
STK-400-3P-A*	400	484,8	463,8	444,4	
STK-500 -3P-A*	500	606,1	579,7	555,6	
STK-600 -3P-A*	600	727,3	695,7	666,7	
STK-800 -3P-A*	800	969,7	927,5	888,9	
STK-1000 -3P-A*	1000	1212,1	1159,4	1111,1	
STK-1250 -3P-A*	1250	1515,2	1449,3	1388,9	
STK-1500 -3P-A*	1500	1818,2	1739,1	1666,7	
STK-2000 -3P-A*	2000	2424,2	2318,8	2222,2	
STK-2500 -3P-A*	2500	3030,3	2898,6	2777,8	
STK-3000 -3P-A*	3000	3636,4	3478,3	3333,3	
STK-3500-3P-A*	3500	4242,4	4058,0	3888,9	

ORDER CODE:

STK - 60 - 3P - A1 - IP20 (380V)

① ② ③ ④ ⑤ ⑥

- ① Servolt Range
- ② Power Rating
- ③ No of Phases
- ④ Input Voltage Swing
- ⑤ Options Fitted
- ⑥ Output Voltage