



Offered in ratings from
10 to 50 kVA, support
international 220 to 240
Volt mains supplies




STATIC DIGITAL VOLTAGE REGULATION

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

FEATURES

- **Automatic Voltage Regulation**

Digitally controlled voltage stabilisation

- **Reliable Voltage Correction**

Maintenance-free Thyristor Technology

- **Design Features**

Customizable structure for customer demands

- **Choice of Input Voltage Ranges**

Low Voltage up to 60%.

High Voltage up to 45%

- **Accurat Output Voltage Regulation**

± 2% (Default) - adjustable from ± 2% to ±6%,
(dependent on input swing).

STK

SINGLE PHASE 2 WIRE

STATIC ELECTRONIC AC VOLTAGE STABILIZERS / REGULATORS

AC SINGLE PHASE - 10 TO 50 kVA

Models: 220V - 230V - 240V - 50 or 60Hz



STABLE AC MAINS SUPPLY VOLTAGE :

When the needs for a ultrafast 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.

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

- Compact in size and quiet in operation

- **Switch-on Delay**

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

- **Inbuilt Bypass**

Ability to bypass the electronic control circuitry in the unlikely event of a system malfunction

- **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.

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
- POS Terminals
- Process Control Systems
- TV/Radio Broadcasting Stations
- Audio/Video Systems
- Security Systemstems
- Production Line
- SMT Equipment

TECHNICAL SPECIFICATION

WORK TECHNIQUE

Microprocessor Controlled Thyristor Technology

Thyristor Configuration

Each Phase 7 Thyristor

Input Voltage Swing Variant Options Available:

Window

Standard (160 to 250 V)

(130 to 230 V)

(180 to 280 V)

Output Voltage:

Pre-settable 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
Front Status LCD Panel with Voltmeter