



# STK SERIES

THREE-PHASE STATIC VOLTAGE REGULATOR

10-2000kVA

3 PHASE / 50-60Hz / 380V/400V/415V



## GENERAL SPECIFICATIONS

- Advanced technology
- High reliability with fully digital microprocessor control
- True RMS measurement, feedback, and control
- Best-in-class correction speed of 500 V/s
- Capable of driving non-linear loads
- Integrated EMI/RFI filter
- Regulation within one cycle with a 20 ms recovery time
- Wide power and input voltage range
- High efficiency and silent operation
- 380/400/415 VAC  $\pm 2\%$  output voltage regulation
- Manual bypass
- Automatic disconnection and reconnection under abnormal operating conditions
- Overcurrent and short-circuit protection
- Intelligent fan cooling system
- Operates with phases either jointly or independently
- Easy access to all operating parameters via LCD display
- Fully static, solid-state electronic design
- Maintenance-free operation with no moving parts or adjustment required
- Silent operation with high efficiency and precision
- Compact construction using high-quality components for minimum failure risk
- Surge protection against lightning strikes (Optional)
- Isolation transformer (Optional)
- Harmonic and RFI filter (Optional)
- 100% locally manufactured
- Easy installation, commissioning, and service
- Guaranteed spare parts availability for 10 years

# TECHNICAL SPECIFICATIONS

POWER	10-2000kVA
Technology	Thyristor Technology, High-Speed Voltage Regulation, Maintenance-Free Design
<b>INPUT</b>	
Input voltage tolerance	380 VAC –25% / +15% (400/415 VAC Optional)
Frequency	50/60Hz ± 10%
Correction speed	500 V/s
<b>OUTPUT</b>	
Voltage	380VAC ± 2% (400/415 VAC Optional)
Recovery time	20 ms
Tolerance	2,5% Standard (Customizable upon request)
Frequency	50Hz ± 10%
<b>DISPLAY AND CONTROL PANEL</b>	
Type	2 × 16-character backlit alphanumeric LCD display
Panel	Touch Buttons
Measurements	R, S, T Input Voltage, U, V, W Output Voltage, U, V, W Output Current, Frequency
LCD Warnings	System Normal, Input Fault, Output Overvoltage, Output Undervoltage, Overload, Overload Shutdown, Overload Bypass (Optional), Thyristor Fault, Phase Fault
Language	Türkçe veya İngilizce
<b>PROTECTIONS</b>	
Output voltage	Low: 320 V / High: 420 V (Adjustable via the LCD panel)
Overload	Fuse and electronic protection
Thyristor fault	The output is automatically disconnected and a warning message is displayed.
Overtemperature	The output is disconnected 10 seconds after the warning is displayed on the LCD
By-Pass	Standard Manual (Automatic Optional)
Noise filtering	Surge Suppressor, EMI/RFI Filter Options
Output protection	Short-Circuit, Overload, Overtemperature, Overvoltage, and Undervoltage Protection
Mains output protection	Fuse protection
<b>GENERAL</b>	
Efficiency	≥ 98% (at full load)
THD	< 0.3% (with linear load)
Altitude	< 2000 m
Noise level	< 50-60 db
Operating temperature	-10°C to +55°C, max. 90% RH (non-condensing)
Protection class	IP20 (Standard), IP23–IP54 (Optional for Special Outdoor Applications)
Cabinet color	RAL 7035
Cooling	Forced air cooling with fans