



STTK SINGLE-PHASE

SINGLE-PHASE STATIC VOLTAGE REGULATOR

10-30kVA

1 PHASE / 50-60Hz / 220V/230V/240V



GENERAL SPECIFICATIONS

- Advanced technology product
- High reliability with fully digital microprocessor control
- True RMS measurement with feedback control system
- Best-in-class correction speed of 500 V/s
- Capability to drive non-linear loads
- EMI / RFI filter
- 20 ms response time with regulation within one cycle
- Wide input power and voltage range
- High efficiency, silent operation
- 220/230/240 VAC $\pm 2\%$ regulation
- Manual bypass function
- Automatic disconnection and reconnection in abnormal conditions
- Overcurrent and short-circuit protection
- Intelligent fan cooling system
- Ability to operate phases together or independently
- Easy access to all operating data via LCD display
- Fully static electronic structure composed of semiconductors
- Maintenance-free design with no moving parts
- Silent operation, high efficiency, and high precision
- Compact construction with high-quality components, minimizing failure risk
- Lightning protection (surge arrester) – optional
- Isolation transformer – optional
- Harmonic and RFI filter – optional
- 100% locally manufactured
- Easy service and commissioning
- 10-year spare parts availability guarantee

TECHNICAL SPECIFICATIONS

Power (kVA)	10-50kVA
Technology	Thyristor Technology, high-speed voltage regulation, maintenance-free design
INPUT	
Input voltage tolerance	160/250VAC -25% + 15%
Frequency	50/60 Hz \pm 10%
OUTPUT	
Output voltage	220VAC \pm 1% (230/240VAC Optional)
Output voltage tolerance	\pm 2.5% standard regulation (customizable upon request)
Frequency	50/60Hz \pm 10%
DISPLAY & CONTROL PANEL	
Type	2 x 16 character backlit alphanumeric LCD display
Panel	Touch-sensitive buttons
Measurements	R, S, T input voltage; U, V, W output voltage; U, V, W output current; frequency
LCD Warnings	Sistem Normal, Giriş Hatalı, Çıkış Yüksek, Çıkış Düşük, Aşırı Yük, Aşırı Yük Kapatma, Aşırı Yük By-Pass (isteğe bağlı), Tristör Arıza, Faz Hatası
Language	Turkish or English
PROTECTIONS	
Correction speed	500 V/s
Recovery time	20 ms
Output protection	Short circuit, overload, overtemperature, overvoltage and undervoltage protection
Mains output protection	Fuse protection
Overload protection	Fuse and electronic protection
Thyristor fault	Output is automatically disconnected; warning displayed on LCD
Overtemperature	Output is cut off 10 seconds after LCD warning
By-pass	Standard manual (optional automatic)
Noise filtering	Surge suppressor, EMI / RFI filter options
GENERAL	
Efficiency	\geq 97% (at full load)
THD	< 0.3% (linear load)
Operating altitude	< 2000 m
Noise level	< 50-60 dB
Operating temperature	0°C ~ 40°C
Relative humidity	90% (non-condensing)
Protection level	IP20 (standard) (IP23-IP54 optional for outdoor solutions)
Cabinet color	RAL 7035
Cooling	Forced air cooling with fans