

# TSVR11001

## STATIC ELECTRONIC VOLTAGE REGULATOR

1kVA

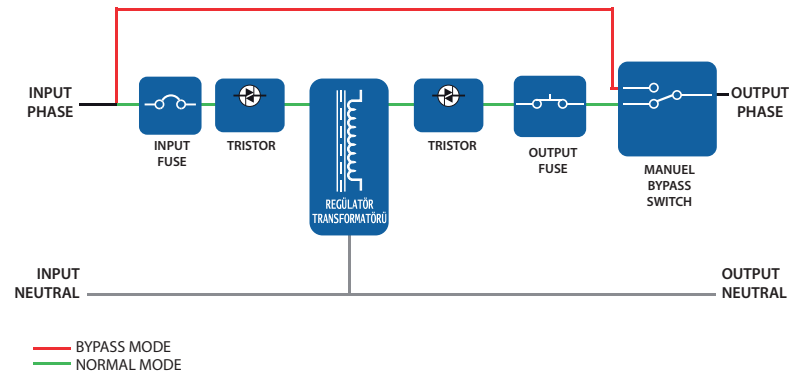
→ WIDE INPUT VOLTAGE RANGE

→ HIGH EFFICIENCY

TSVR11001 Series Static Voltage Regulators are voltage control, protection, and management devices with microprocessor control and high-speed semiconductor technology. TSVR11001 Series Static Voltage Regulators are designed to provide the correct voltage value required by rapidly evolving and increasingly precise industrial devices. In this way, they ensure the continuous, stable, and safe supply of energy to the devices.

## GENERAL SPECIFICATIONS

- Wide voltage range 65-300VAC
- New maintenance-free microprocessor-controlled technology
- CPU-controlled thyristor units for power management
- Overload, over temperature, high voltage, low voltage protection
- Flexible design that easily adapts to different grid and voltage conditions and software feature
- On-off switching and switching to operate from the mains in case of failure and maintenance By-Pass switch
- With thyristor technology in power units and SMPS technology in supply units true-static modular construction
- Remote user access to all information with Remote Management System and software support access and management
- Production according to ISO 9001:2008 Quality management system.
- New technological design suitable for industrial environments such as dust, humidity, vibration
- Maintenance-free product design
- Safe use with all electrical appliances
- Small size, long life
- Easy-to-understand user-friendly LCD display panel
- Compact production with quality materials, minimal risk of failure
- Surge arrester against sudden voltage spikes and lightning strikes
- 10 years spare parts warranty
- Parallel connection for special high power applications
- Auto-test



Single Line Drawing

## DESIGN

TSVR11001 Series Static voltage regulators are designed to be easily connected to electrical systems all over the world with their small size, aesthetic and modular structure. "Bus-Bar Panel Input-Output Module" required for direct connection to Bus-Bar systems can be added optionally. TSVR11001 Series Static voltage regulators can monitor input voltage, output voltage, load amount, etc. with the LCD display panel as standard, and fault and warning information can be monitored. The devices can be accessed via the web with the optional "Remote monitoring and management software".

## PROTECTION

TSVR11001 Series Static voltage regulators have high voltage, low voltage, over temperature, over temperature, over load, short circuit and phase interruption protections both for your own safety and for the safe operation of all electrical devices in your business. To ensure flexibility of use and operational safety, there is a "Manual By-Pass" unit that allows the loads to be transferred directly to the mains voltage. Equipped with thermal magnetic fuses at inputs and outputs.

# TECHNICAL SPECIFICATIONS

MODEL	TSVR11001
Power (kVA)	1
Power factor	1.0
<b>INPUT</b>	
Voltage	220 VAC phase + neutral (65-300VAC Optional)
Voltage tolerance	S (-25%,+15%)
Current	6A
Frequency	50Hz ± 5%
Input connection	IEC 320 C13
<b>OUTPUT</b>	
Voltage	230 ± 5%
Frequency	50Hz ± 5%
Current	4A
Overload	3min at 101%-125% load, 10sec at 126%-150% load, 0.2sec at 151% load, then output shutdown
Response time	5-20 msec
Efficiency	> 96,5%
Output connection	IEC 320 C13
LCD display	Input voltage, Output voltage, Output load percentage, Output frequency, Regulator status and fault notification, Warnings (overload, overheat, input fault, output)
Communication	Browser-based remote monitoring and management via Ethernet interface (optional), MOD-BUS RTU via RS485 interface (optional), Dry contact information (optional)
<b>PROTECTION</b>	
Input voltage protection	Electronic shutdown in case of low/high voltage at input
Output voltage protection	Electronic shutdown in case of low/high voltage at output
Input current protection	MCB (Optional)
Output current protection	MCB (Optional)
Output load protection	101%-125% 3min, 126%-150% 10sec, 151%-200% load 0.2sec, over 200% emergency exit closure
Over temperature protection	Shutdown in extreme heat
Manual by-pass	Manual By-Pass for breakdown and maintenance (Optional)
High voltage protection	Surge arrester suitable for lightning and high voltage (Optional)
<b>ENVIRONMENTAL CONDITIONS</b>	
Operating temperature	-30 °C ~ +40 °C (Different operating temperature optional)
Operating altitude	< 3000 m
Humidity	90% Non-condensign
Noise level	< 45 dB
<b>CABIN FEATURES</b>	
Type	Internal
Protection class	IP21 (Optional outdoor enclosures available upon request)
Colar	RAL 7035
Base	Wheel / Foot
Cooling	Fan (Forced air cooling with thermostat controlled fan)
Dimensions (HxWxD) mm	241x327x192
Weight (kg)	29