



M-SRV SERIES

SINGLE-PHASE SERVO VOLTAGE REGULATOR

10-50kVA

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



GENERAL SPECIFICATIONS

- Automatic Servo Voltage Regulator
- High reliability with digital microprocessor control
- Wide power range for single-phase applications
- Advanced motor control topology
- Wide input voltage operating range
- Adjustable output voltage tolerance of $\pm 1\%$
- True RMS measurement and feedback
- Best-in-class correction speed of 100/150 V/s
- 500 ms recovery time (160–225 VAC)
- Short-circuit, overvoltage, undervoltage, and overload protection
- Manual bypass switch
- Adjustable output voltage via the front panel
- LCD/LED display
- Programmable through the digital control panel
- Audible and visual alarm system
- High efficiency of up to 98%
- Continuous automatic system monitoring
- Intelligent fan control

- Advanced fault detection with alarm and event memory
- Environmentally friendly design
- Energy savings through high efficiency
- Compact design and silent operation
- Easy installation, commissioning, and service
- Low installation and operating costs
- Guaranteed spare parts availability for 10 years
- 24/7 technical support and customer service

Optional Features

- Advanced remote monitoring via RS485
- LCD display
- Contactor protection
- Galvanic isolation transformer
- Custom input/output design options

Standards

- EN 60335
- CE, ISO 9001:2008

TECHNICAL SPECIFICATIONS

POWER		1-50kVA
INPUT		
Input voltage correction range	160/250 VAC (Single-Phase), (Optional 130/230 VAC)	
Input voltage operating range	130/270VAC (1Phase)	
System input protection	Overcurrent Thermal Fuse, Voltage Protection, Optional MCB Protection	
OUTPUT		
Output voltage	220 VAC RMS \pm 1% (Single-Phase) (Optional: 230/240 VAC)	
Output voltage tolerance	1%-5% Adjustable via the Front Panel	
Output voltage	Default: 220 \pm 2% / 230 / 240 VAC	
Operating frequency	50/60Hz	
Overload	200% for 10 seconds	
Correction speed	100 V/s	
Recovery time	500 ms (160 VAC – 250 VAC)	
Efficiency	98%	
System topology	Microprocessor-Controlled, Fully automatic servo control	
Digital display	True RMS Digital Multimeter, Microprocessor	
Monitored measurement values	Separate Three-Phase Input and Output Voltage Readings	
Output voltage tolerance	Provides numerical configuration capability for preset menu settings	
Output delay time setting (optional)	Provides numerical configuration capability for preset menu settings	
Mechanical transfer (Bypass)	Manual By-pass Switch (Optional)	
Operating temperature	0°C-50°C	
Protection level	IP20 / IP25	
Humidity	90%	
Regulation	Independent Phase Control (For Three-Phase Systems)	
Altitude	2000 Meter	
Noise level	< 50 dB	
Certificates	CE - ISO 9001 - OHSAS 18001 - ISO 14001 - TÜRKAK	
Connection type	Input	Wired – Screw Terminals
	Output	Wired – Screw Terminals