

SERVO-REG Series

1 ~ 2500 kVA Microprocessor Controlled
Servo Voltage Stabilizer

TRANSPORT
COMPANIES



INDUSTRIAL
FACILITIES



CINEMA &
THEATERS



MILITARY
FACILITIES



INDUSTRIAL
APPLICATIONS



RADIO & TV
SYSTEMS



FUEL
STATIONS



HOUSE AND
APARTMENTS

GENERAL FEATURES

Advanced Technology
High Performance via RISC Microprocessor Control
Wide Power Options for Mono Phase / Three Phase Systems
Wide Input Voltage Range
True RMS Measurement, Feedback and Control
Best in Class with 40-200 V/s Regulation Speed
High Efficiency Up To 98%
Independent Control Panel for Each Phase
Selectable Output Max/Min Voltage
Temperature Controlled Smart Cooling
Short Circuit Protection,
Ease of Transfer of Load to Utility via Manual By-Pass
Automatic Deactivate/Reactivate in Abnormal Conditions
Independent/Together Operation of Phases
High Performance Even on 100% Unbalanced Load
Silent Operation
Compact/ Impact Resistant

%100 Made in TURKEY

Environment Friendly Design

Small Dimensions

Easy Installation/Maintenance and Service

Low Installation and Operational Costs

10 Years Spare Part Availability

7/24 Technical Service and Customer Services

*Uninterrupted Power
Uninterrupted Service*



OPTIONAL FEATURES

Overload, High/Low Voltage, Over Temperature Protection
2x16 LCD display, mimic diagram
1000 pcs Alert/Event Memory
Custom Design and Production Based on Client's requirement
Intelligent cooling system

STANDARDS

TS EN 60335-1



SUPERIOR FEATURES

SERVO-REG MC Series Servo Regulators are microprocessor controlled advanced technology stabilizers and operation technology is based on Pulse Width Modulation.

Microprocessor and Pulse width modulation provides enhanced control on the servo motor and this offers the best dynamic response to the input disturbances and increases the speed for the system. The design provides extended lifetime for the system and reduces total cost of ownership.

Each phase is controlled independently so that the load connected to the output is supplied continuously even if there exists unequal voltages in phases and unbalanced load at input and output.

SERVO-REG Series are 100% made in TURKEY and all the components inside has international certificates and compatible with international standards, 1 year standart warranty and 10 years spare parts availability is what comes with SERVO-REG Series stabilizers

TECHNICAL SPECIFICATIONS

| MODEL | Microprocessor Controlled SERVO-REG | |
|---------------------------------------|--|-------------------------------|
| Phase | 1 Phase | 3 Phases |
| Power | 1 ~ 50 kVA | 3 ~2500 kVA |
| INPUT | | |
| Regulation Voltage Range | 160 - 250 VAC / 130 - 270 VAC | 275 - 440 VAC / 225 - 465 VAC |
| Operating Voltage Range | 140 - 265 VAC / 110 - 285 VAC | 240 - 460 VAC / 190 - 490 VAC |
| Frequency | 45-65 Hz | |
| OUTPUT | | |
| Nominal Voltage | 220 VAC RMS | 380 VAC RMS |
| Voltage Tolerance | ± 1% (Selectable Between 1-5%) | |
| Frequency Range | 45-65 Hz | |
| Regulation Speed | 40 - 200 V/s | |
| THDv | 0% | |
| Overload Operation | 10 milisecond at 200% load | |
| GENERAL | | |
| Technology | Microprocessor Controlled, Full Automatic Servo | |
| Control | RISC Microprocessor, H-Bridge MOSFET PWM Motor Drive Technics | |
| Independent Phase Regulation | Standard in 3 Phase Models | |
| Efficiency | 98% | |
| Cooling | Forced cooling / Temperature Controlled Cooling System (optional) | |
| Protection | Output Short Circuit, Overload, Output High / Low Voltage, Over Temperature, Motor Fault, Ground-Neutral (Optional) Protection | |
| Mechanic By-Pass | Manual Mains/Regulator Breaker | |
| CONTROL PANEL | | |
| Display | Special LCD for each phase | |
| Alert / Event Memory | Mimic Diagram, Fault Warning LEDs / Real Time 1024 pcs Event/Alert Memory | |
| Monitorable Datas | True RMS Input/Output Voltage, Load Percentage, Frequency Measurement | |
| COMMUNICATION | | |
| Dry Contacts (Optional) | Regulator Normal Operation (NO,C,NC) | |
| Remote Monitoring (Optional) | Remote monitor over Netwok/LAN (Optional) | |
| ENVIRONMENT | | |
| Operating / Storage Temperature Range | -10 °C ~ 50 °C / -15°C ~ +55°C | |
| Relative Humidity | 0% ~ 95% (Non-Condensing) | |
| Noise | <50 dB (from 1 meter distance) | |
| Altitude | ≤ 2000 m | |
| Protection Class | IP20 | |
| STANDARDS | | |
| International Standards | TS, EN 60335-1 | |

SERVO-MATİK Elektronik Sistemler San. Tic. Ltd. Şti. keeps the right to change the information on this document without any notice.

Servo-matik Elektronik Sistemler San. Tic. Ltd. Şti.

Ortabayır Mh. Dereboyu Cd. No:110 PK.34410 Servo-matik Binası Gültepe - Kağıthane - İstanbul - Turkey

Phone: 0212 211 22 85 - 211 98 23 - 356 58 00 - 266 97 77 / Fax: 0212 212 17 93 / info@servomatik.com / www.servomatik.com