

SERVO-RED Series

12V ~ 400V / 10A ~ 1000A

DC Power Supply - Battery Charger



GENERAL FEATURES

High Performance via Advanced Microprocessor Control
Battery Charger and DC Power Supply Options
High Frequency PWM Technology
IGBT/Tyristor Module Technology
Tyristor and Switch Mode Applications
Selectable Input Voltage Options
Different Input Voltage Options for Monophase/Triphase Utilities
Low Ripple (%2 - %5) at Output
Energy Saving System
Constant Voltage and Constant Current Options
Adjustable Quick and Normal Charging Voltage and Current
Longer Battery Lifetime with Lower DC Ripple
Selectable Battery Type (with Water, Dry Type, Gel, NiCd)
Automatic Start
Input EMI/RFI Filter
Short Circuit, High Current/Voltage, Overload, Over Temperature Protections
DC Low Voltage Protection
Easy Access to Operation Status Data via LCD Panel
Warning Leds and Dry Contact Output
High Efficiency, Extended Lifetime

100% Made in Turkey
Esthetical Appearance, Modular Design
Silent Operation, Environment Friendly Design
Easy Installation/Maintenance/Service
Low Installation and Operation Cost
10 Years Spare Part Availability
7/24 Technical Service and Customer Services

OPTIONAL FEATURES

Audible Error Warnings
Auto Shut Down After End of The Process
Remote Monitoring/Management for Battery Temperature/Status
External Analog Start Input
DC Ground Leakage Protection Unit
Dropper Diode Unit for Constant Load Voltage
Customized Design and Production for Client' s Need.

STANDARDS

TS EN 62040-1 TS EN 61204 md.4 (LVD) TS EN62040-3 (EMC)

*Uninterrupted Power
Uninterrupted Service*



TECHNICAL SPECIFICATIONS

| Model | SERVO-RED | SERVO-RED SM |
|---------------------------------|--|---|
| INPUT | | |
| Nominal Input Voltage | Monophase 220 VAC / Diphase 380 VAC / Triphase 3x380 VAC | |
| Input Voltage Range | ± 20% | |
| Nominal Input Frequency | 50 / 60 Hz | |
| Frequency Range | ± 10% | |
| Power Factor | > 0,8 | > 0,7 |
| Input Protection | W-Automat | |
| OUTPUT | | |
| Nominal Output Voltage | 12 / 24 / 36 / 48 / 72 / 80 / 96 / 110 / 220 / 240 / 380 / 400 VDC and Custom Design | |
| Quick Charge Voltage | Up to 120% of nominal output voltage | |
| Max. Output Current | Up to 110% of nominal output current | |
| Ripple at Output | 3% (On battery) - 5% (Without battery) | |
| Output Protection | W Automat Fuse, Electronics Over Current Protection | |
| GENERAL FEATURES | | |
| Operating System | Transformer Based | Switch Mode |
| Operating Technology | High frequency PWM technic, IGBT technology / Switch mode technology | |
| Control | Microprocessor Controlled | |
| Efficiency | > 85% | |
| Protection | Input : Input Fuse Output : Over voltage, Short circuit | |
| CONTROL PANEL | | |
| Display and Buttons | 4x20 Character LCD Panel (Different Languages as an Option), Menu Selection and Parameter Setting Buttons | |
| Settable Values | Normal-Quick Charging Coltage, Output Current | |
| Audible Alarms | Available | |
| Dry Contact Information | Optional | Rectifier fault, Over voltage, Battery low/high, Utility loss, Input fuse, Over temperature, DC ground leakage (+/-), Status info |
| Warning / Event | Led warnings , Warning/Event Memory (Optional) | |
| COMMUNICATION | | |
| Remote Monitoring | PC communication over RS232 (Optional) Remote Monitoring and Management via SNMP over TCP/IP (Optional) | |
| Output Isolation | High voltage isolation with output isolation transformer | |
| Over Current Protection | 10 ms. 200%, fuse | |
| RFI Level | TS, EN 62040-3 | |
| ENVIRONMENTAL | | |
| Cooling | Forced Air Cooling | |
| Operating / Storage Temperature | 0 °C ~ 40 °C / -10 °C ~ +55 °C | |
| Relative Humidity | 0% ~ 95% (Non-Condensing) | |
| Operation Altitude | ≤ 2000 m | |
| Audible Noise | < 60 dB (from 1 meter distance) | |
| Colour | RAL9005, RAL7015, RAL7032 & Other Available Colours | |
| Protection Class | IP20 | IP21 |

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