

MULTIFORM

Inverter-Ups-Rectifier
3-6kVA 1 Phase In/Out



Applications: · Computer · Motor · TV · Refrigerator · Pumps · A/C · Lightning · Cash register · Office Equipments

Line interactive UPS - Inverter - Rectifier features with real sine wave output have very wide application field. Three features at same structure, it is unique product compared to similar products in market.

Technical Specifications

- Real Sinus Wave for critical loads
- Microprocessor control technology
- Easy use LCD display
- 1-45 A Charger current
- Battery deep discharge protection
- Overload and Short circuit protection
- Voltage, Spike, Surge Protection
- Internal Automatic Voltage Regulation
- Adjustable Voltage Frequency and Battery Charger Current
- Longer Battery Lifespan with Smart Battery System
- Electrical Generator Module for special applications
- Low noise level with Smart Cooling Fan
- Fault alarms and status alerts
- Auto restart
- Start from the battery
- Sleep mode for energy saving
- Power factor correction in battery operation
- Low output THD (<3%) when operating from battery
- Easy installation and maintenance
- Compact design

Options

- Communication Control Card
- RS-232
- Emergency Protection Order (EPO)
- External Battery Temperature Sensor
- Relay contacts
- User Input Contacts
- Remote Monitoring and control
- Software
- Modbus
- SNMP Adapter
- Solar Connection Kit
- 3 Phase Connection Kit
- Remote Monitoring Panel
- Reverse battery connection protection

Specifications

| MODEL | MF 3000 | MF 6000 |
|-------------------------------------|--|--|
| Capacity (VA) | 3000 | 6000 |
| INPUT | | |
| Voltage Bandwidth | 165VAC-265VAC (UPS AVR Mode) | |
| Frequency | 50 or 60Hz \pm 5% (Automatic) | |
| OUTPUT | | |
| Power Factor | 0,9 | |
| Voltage (Battery) | 220VAC / 230VAC \pm 5% | |
| Wave Form | Sinus wave | |
| Frequency (Battery) | 50 or 60 Hz \pm 0.5% Automatic | |
| Voltage Regulation (AVR Mode) | 165<Mains< 198 >output +%12 265>Mains> 242 > output -%12 165>Mains > inverter mode 265> Mains > inverter mode | |
| Output time | <4 ms (Ups mode) | |
| Transfer Period (Gen Mode) | 1- 10 sec (Delay time adjustable) | |
| Overload (Battery /Mains) | UPS automatic %110 load 10 sec/ %125 load 3 sec. | %110 load 10 mins ve %125 load at 1 min. load 3 sec. |
| Output | Barrier type terminal & panel type terminal | |
| BATTERY | | |
| Battery Type | Dry type or SLA Type (selectable) | |
| Voltage | 24 VDC | 48 or (60 VDC or 72 VDC optional) |
| Charge Current | 1-20A (Standard) | 1-40A (Standard) |
| Battery | Int. Batt. Model | 8 X 12 V / 7 Ah-9 Ah |
| Quantity | Ext. Batt. Model | 4 X 12 V / 40 Ah-200 Ah |
| Battery Protection&Spec. | Auto test (Monthly), Deep discharge protection, On-line replaceable battery Reverse battery connection protection (optional) | |
| LCD Display and LEDs | | |
| LCD Display and LED Display | Input voltage & frequency, Output voltage & frequency, Load percentage, Battery voltage & percentage, 128 error recording, Temperature display, Operating status | |
| ALARMS and WARNINGS | | |
| | 128 Fault Logging, Mains Failure, Battery Low & High, Overload and Overcurrent (short circuit), Mains Low & High, Overheat | |
| PROTECTION | | |
| | Spike Protection(320 joule, 2 ms), Overload -Short Circuit-Over temperature- Output Voltage | |
| COMMUNICATION AND CONNECTION | | |
| Interface (Optional) | RS 232 ,3 pcs output relays,2 pcs input contacts, EPO, Battery Temp. Sensor, Solar | |
| Modbus | Optional | |
| Solar Connection | Optional | |
| Remote Monitoring | Optional | |
| 3 phase connection | Optional | |
| SNMP | Optional | |
| ENVIROMENTAL CONDITIONS | | |
| Operational Temperature | 20-40 | |
| Humidity | 0 ve %90 uncondensed humidity | |
| Noise Level | < 40 dBA | < 45 dBA |
| Proection Level | IP20 | |
| PHYSICAL ATTRIBUTES | | |
| Weight with battery (kg) | 58 | 72 |
| Weight without battery (kg) | 38 | 52 |
| Dimensions (mm) | 220 x 500 x 390 | 220 x 620 x 390 |