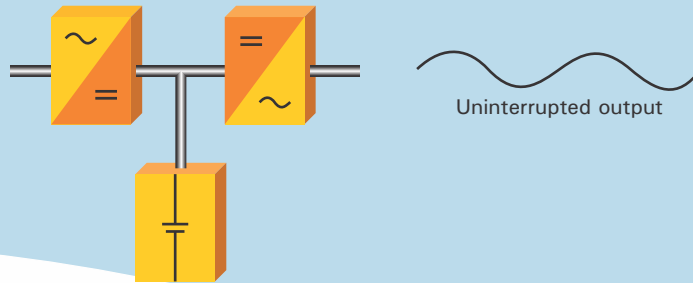
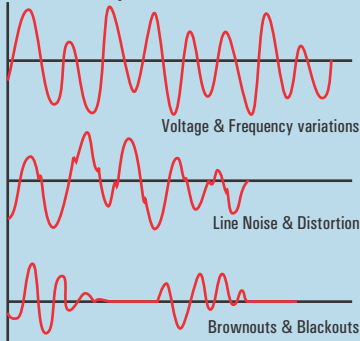




Utility Power Disturbances



INTRODUCTION

NIFA ELECTRONICS Began outlining sound company framework, built on professional lines way back in 1991. NIFA ELECTRONICS has grown by leaps and bounds in exponential manner to become one of the major player in the field of POWER CONDITIONING, POWER MANAGEMENT & Allied Technical Services..

BRIEF ABOUT ONLINE U.P.S.

In today's scenario, the utility power available has unfortunately several unwanted parameters like sags, surges, voltage variation, frequency variation, brownouts, spikes, dips, blackouts, etc. However, with more and more sensitive and demanding equipment being deployed by the day, the need for clean power has become all the more essential in order to ensure its correct functioning and to afford total protection.

The Power Master Series of On-Line UPS SYSTEMS offer clean power and total protection to your costly equipment.

These state-of-the-art Double Conversion type UPS systems employing High Frequency PWM Technique using MOSFET/IGBT as the Main Switching Device for Invertors are technically superior UPS systems giving Pure Sine Wave Output. Compact and well engineered, the Power Master systems have been tried, tested in virtually all applications and have been found to be extremely reliable and consistent in delivering optimum performance. These systems, besides being easy to install and operate are simple to maintain, should the need ever arise.

APPLICATIONS

- Data Processing Equipment
- Process Automation Systems
- Medical Diagnostic Systems
- Banking Terminals
- Communication Systems
- Chemical And R&D Lab.
- Office and Factory Automation
- Satellite Earth Stations
- Defence and Nuclear Facilities
- Machine Tools and Robotics
- ICUs, OTs and Laboratories
- Power, Generation Stations
- Prepress and Printing Equipment

SALIENT FEATURES

- VHD Logic employed for the first time in India
- True On-Line Double Conversion type UPS System.
- High Frequency PWM Design using IGBT / MOSFET
- Instantaneous sine wave reference technique for superior overall performance.
- Compact and well engineered architecture.
- Wide input voltage tolerance range.
- Suitable for all types and capacities of batteries.
- Neat and clean Flat Cable Wiring.
- Pure Sine Wave Output.
- Smooth and silent operation.
- Complete annunciation on the front panel.
- Excellent dynamic response for step load change.
- Fast correction rate for line and load regulation.
- High inrush / peak current handling capacity.
- Software interface through RS 232 port for monitoring UPS performance from server.
- Easy to install, use and maintain.
- Superior performance to price analysis.

OPTIONAL ACCESSORIES

- Static / Manual Bypass.
- Mains Synchronisation.
- Parallel Redundancy.
- Computer Interface.
- Batteries
- Battery Cabinets.
- Remote Indication Panel

TECHNICAL SPECIFICATIONS

Rated Output Capacity	: 0.5 KVA to 40.0 KVA Single Phase; 10 KVA to 500 KVA, Three Phase	
Input Voltage	: 160-270 V AC Two Wire.	330-470 V AC Four Wire.
Input Frequency	: 47-53 Hz.	
Rectifier Charger	: Automatic Float Cum Boost Charger , Constant Voltage Constant Current Type.	
Battery Input	: 48 V DC for 0.5 - 2.0 KVA	120 V DC for 2.0 - 5.0 KVA
	144/180/240 V DC for 7.5 - 10.0 KVA	360 V DC for 15.0 - 40.0 KVA
Battery Type and	: S.M.F. / Tubular or any other type for 15 min. to 5.0 hrs. as per req.	
Output Voltage	: 220 / 230 V AC	
Regulation	: 1% under all Line and Load Conditions.	
Output Frequency	: 50.0 Hz.	
Regulation	: 0.25%	
Inverter Efficiency	: 88 - 90% or better.	
Waveform	: Sinusoidal.	
Distortion	: THD less than 2%, Any Single Harmonic less than 1%	
Transient Response	: 3% under step Load Change of 80	
Transient Recovery	: Within 5 - 10ms in regulation band	
Load Power Factor	: Unity to .65 Lag within KW Rating	
Overload Capacity	: 120% for 10 mins. 150% for 10 sec.	
Crest Factor	: Better than 2.5	
Control Method	: Double edge PWM with instantaneous control	
Switching Frequency	: 6 KHz / 12 KHz / 24 KHz	
Circuit Method	: Instantaneous sine wave reference technique. VHD Logic	
Ambient Temperature	: 0 - 50 Degrees Celsius	
Relative Humidity	: 95% RH Max. (Non Condensing)	
Audible Noise	: 45 - 55 dB at 1.5 meters.	
Cooling	: Forced Air Type	

PRODUCT RANGE

- Online UPS
- HT & LT Industrial AVR
- Servo Stabiliser
- Ultra Isolation Transformer
- Automatic Power Factor Control Panel
- Maximum Demand Control Panel
- Special Control Panels

SERVICES

- Power Quality Management
- Energy Audit Study

CUSTOMER SUPPORT

Centrally located in Ahmedabad, the customer support division remains consistent in progressively adding to its well-deserved reputation, spurred by a scientific spirit, entire team of engineers & technicians involved in the maintenance operations, meticulously work to keep customer demands satisfied. Our commitment to the customer goes beyond executing the best possible equipment. To help assure the perfect match of product & application, we offer and extensive direct support at all levels.

**We reserve the rights to change product specification without prior notice.*



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