



ON -LINE UPS



**EMMANUEL
ELECTRONICS**
AN ISO 9001-2000 COMPANY



FEATURES:

- True On-Line Design
- Intelligent DSP / Microprocessor-Based
- Necessary System Information Via LCD Display
- Advance PFC Technology
- SPWM IGBT Inverter Design
- Communication links RS232/SNMP
- Advance Battery Management

DGS&D Registered

Tested by Govt. Test Lab

DESCRIPTION

Voltage Sags, frequency deviations, random spikes or transients and even complete loss of power can have catastrophic effect on Vital Computer, Data storage and Transmission, Process Control and Security System.

ACE range of UPS system have been designed to provide continuous, highly stable and clean AC power for such vital AC loads.

ACE UPS comprises of charger, battery bank, static inverter and transfer switch. The CHARGER converts commercial AC power to precise DC power and supplies the STATIC INVERTER and maintains the battery in a fully charged condition, The STATIC INVERTER converts the DC to a very precise AC which is supplied to load via transfer switch. In the event of commercial AC power failure, the Inverter continues to supply Load without interruption, drawing power from BATTERY. THE MANUAL BYPASS SWITCH enables load to be supplied from the bypass supply during maintenance or repair of UPS.

FEATURES

- COMPUTER GRADE POWER: CLEAN, CONTINUOUS, NOISE FREE.
- TRUE ON-LINE. ZERO BREAK CHANGEVER.
- DESIGNED FOR OFFICE ENVIRONMENT: COMPACT, QUIET & ATTRACTIVE.
- SIMPLE OPERATING CONTROLS; USER FRIENDLY SYSTEM.
- HIGH EFFICIENCY WITH LOW HARMONIC DISTORTION
- HIGH RELIABILITY HENCE HIGH MTBF
- TROPICALISED CIRCUIT DESIGN
- MANUAL BYPASS SWITCH PROVIDED FOR EASE OF MAINTENANCE
- STATE-OF-THE-ART PWM TECHNOLOGY.
- MODULAR DESIGN TO PROVIDE EFFICIENT AFTER SALES SERVICE.

OUR SPECIAL ACHIEVEMENTS

- Designed & manufactured SOLID STATE FREQUENCY CONVERTERS with sine wave output frequency settable from 46 Hz to 62 Hz, and output voltage settable from 0 to 260v ac. Our converters are used as TEST BENCH by Corporates like KENSTAR, BAJAJ, GODREJ, USHA SRIRAM, etc.
- Developed & supplied parallel redundant, equal load sharing, sine wave inverters, with input 48v dc & output 230v ac, for B.S.N.L.
- Designed & supplied 100KVA UPS, 3 phase input & 3 phase output, IGBT based, sine wave, for 3 phase MOTOR LOAD of less than 0.5 power factor.
- Developed and supplied single phase & three phase output UPS of frequency 400Hz, for DEFENCE applications.



EMMANUEL ELECTRONICS

AN ISO 9001-2000 CERTIFIED COMPANY

Manufacturers of: UPS System, Inverters, Stabilizers, Transformers, Power Supplies, Batteries

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TECHNICAL SPECIFICATIONS

INPUT

Voltage	: Single phase 230 VAC - 30% + 25%, Three phase (4 wire) 400 VAC ± 25%
Frequency	: 50 HZ ± 5HZ

CHARGER

Type	: Fully controlled charger with PFC. 6-pulse controlled for 3 phase operation
Regulation	: within ± 2%
Efficiency	: Better than 90%

BATTERY

Type	: Maintenance free/Tubular
DC Voltage	: 48v dc to 480v dc

INVERTER

Type	: Online, double conversion, IGBT based with DSP/micro controller, sine wave PWM.
Output	: 220 / 230 / 240 VAC ± 1%. Single phase 380 / 400 / 415 VAC ± 1%, Three phase
Frequency	: 50 HZ ± 0.05%
Output Waveform	: Sinusoidal with THD less than 3%
Overload Capacity	: 125% for 10 mins; 150% for 20 secs.
Efficiency	: Better than 90%
Power Factor	: Unity to 0.7 lagging.
Transient Response	: ±4% for 100% instant load change. Recovery time 20 msec
Crest Factor	: 3:1
Power Rating	: up to 1000KVA

BYPASS TRANSFER SWITCH

UPS shall transfer load to bypass automatically with zerobreak

Sync Transfer Time : within 5 msec.

Unsync Transfer Time : within 20 msec.

PROTECTIONS

Low battery, Output over/under voltage, Overload/short Circuit.

OPERATING CONDITIONS

Ambient Temp.	: 0-45°C
Altitude	: 1200 mts. Max.
Humidity	: 95% max. RH. Non condensing
Acoustic noise level	: <60db @ 1 meter

OUR OTHER PRODUCTS

- SERVO STABILIZERS • FREQUENCY CONVERTERS,
- INVERTERS • ULTRA ISOLATION TRANSFORMERS
- BATTERY CHARGERS • DC POWER SUPPLIES • CVT

DEALER :