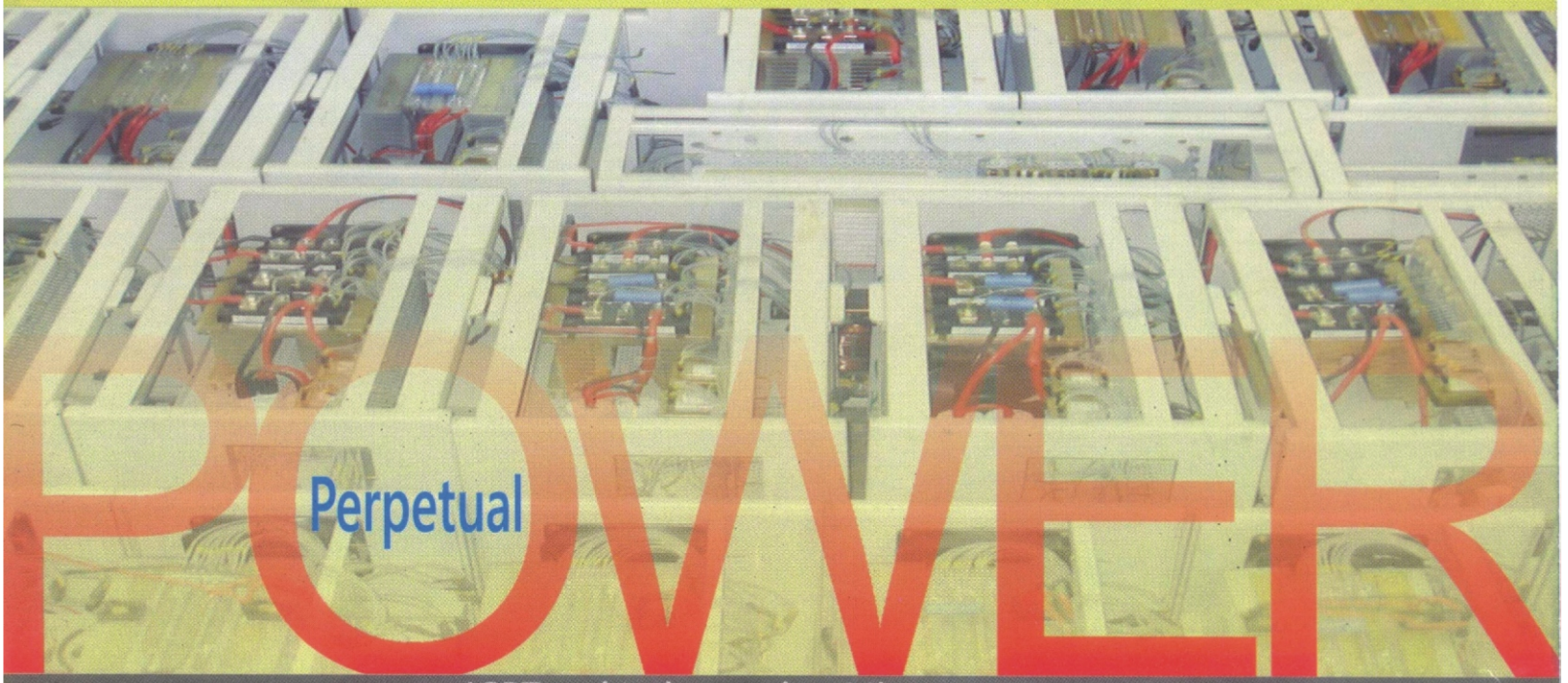
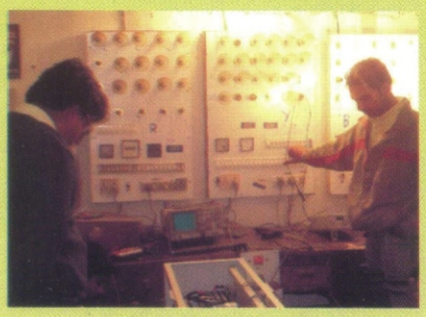
HIGH PERFORMANCE
SINE WAVE POWER INVERTER SYSTEM

TUV SUD
ISO 9001: 2000



IGBT technology using Microprocessor

HYPERCRITICAL SYSTEMS



The chances are good that at least some of your network nodes are clustered closely together : Co-located file servers, web servers and mail servers for your internet and internet systems, high speed modems, hubs, routers and bridges, VSAT equipments, small LANs that are inter connected into a larger LAN, WAN, ATM / Frame Relay based MANs; workstations in an Engineering department, PC's in the sales office.

For such co-located systems a larger Inverter can be used to protect the entire cluster of nodes.

This type of protection works well for network clusters with:

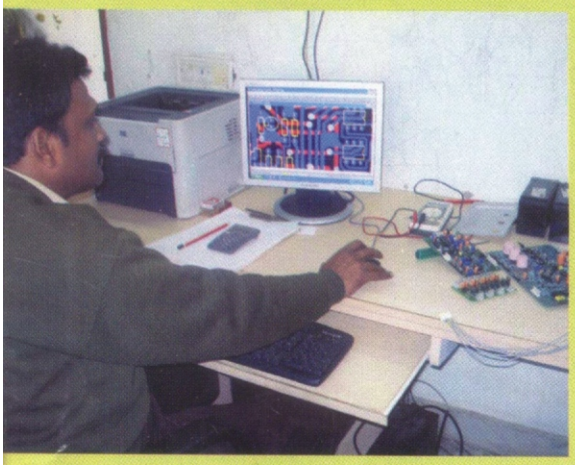
- ❑ Mission Critical Applications
- ❑ High Speed Communications

PERPETUAL POWER

Recipient for the National Award for Quality Products, 1997 presented by the President of India.

PERPETUAL SINEWAVE INVERTER

Perpetual range of Inverter System incorporates highly reliable IGBT technology with a switching frequency of 20kHz, based on Multiple Pulse Adaptive Sineweighted Pulse Width Modulation.



SALIENT FEATURES

- High Inverter Efficiency
- Pure Sine Wave
- Low Acoustic noise
- Faster transient Response
- Handles Higher Crest Factor
- Protected Against RFI & EMI

SPECIFICATIONS

Range
1 KVA to 10 KVA (Single Phase)
10 KVA to 200 KVA (Three Phase)

Design
Modular for easy Servicing
Tropicalised to suit any working conditions

INPUT
Nominal Voltage
230 VAC ± 20% Single Phase
415 VAC ± 20% Three Phase

Nominal Frequency
50 Hz ± 10%

OUTPUT
Output Voltage
220/230/240 VAC Single Phase
110 VAC Single Phase
415 VAC Three Phase

Regulation
± 1% for Input Variation and stop load change from 10% to 100%
± 2% Typical

Output Frequency
50/60 Hz Frequency

Frequency Accuracy
Better than ± 0.05%

Power Factor
0.8 Lagging to Unity

Type of Inverter
Multiple Pulse Adaptive Sineweighted Pulse Width Modulation
Switching Frequency 20 kHz

Crest Factor
3 : 1

Wave Form
True Sinewave

Nature of Load
The Load is Continuously on the Inverter

Transient response
Output within ± 4% of nominal value and recovery within 100ms to 50% load change

Short Term Overload Capacity
125% for 2 Minutes, 300% for 10ms

Inverter Efficiency
Better than or equal to 90%

Secondary Fail Back Power Supply (Battery)
72 to 240 VDC for Single Phase Output Systems
360 / 480 VDC for Three Phase Output Systems

OTHERS
Operations
Output / Load On/Off Switch

Panel Indicators
Mains & Battery Mode LED
DC Over Voltage LED
Battery Low LED / Audio Alarm
Overvoltage / Undervoltage LED
Mains Fail Audio alarm / LED
Inverter On/Trip/Overload LED

Protection
Overload & Short Circuit
DC Over Voltage & Battery Low
Inverter Output Over Voltage & Under Voltage

Metering (Digital)
Input Voltage, Output Voltage/Frequency/Load %, Charging & Discharging Voltage, Charging Current, Over Load, Battery Low, UPS On/Off Status & Maintenance Call No.

Service By-Pass
Static/Manual (Optional at additional Cost)

Back Up Time
As per requirement

Type of Batteries
Automotive / Industrial Tubular / Sealed Maintenance Free / Nickel Cadmium

Type of Charger
Float cum Boost Charger using high battery management system for higher efficiency

PERPETUAL POWER
SERVICES PRIVATE LIMITED
121/6, Sathnur Main Road, Sathnur, Near Country Club, Banglore - 562149.
Mob. : 9845835774, 9845271112
E-mail : ppsplblr@yahoo.co.in, salesblr@perpetualpowerups.com,
Website : www.perpetualpowerups.com