POWER CLINIC
THE REPAIR SPECIALISTS

» GLOBAL REPAIR LEADER SINCE 1987
» 1600 + COMPANIES SERVED WORLD WIDE
» OVER 12,000 UNIQUE MODELS
» 1700 UNITS REPAIRED IN 2015
INDUSTRIES WE KEEP IN POWER

- MANUFACTURING AND PROCESS CONTROL
- SEMICONDUCTOR FABRICATION
- FLIGHT SIMULATION
- MILITARY AND DEFENSE
- MEDICAL
- LAB AND TEST
- DIGITAL SIGNAGE
- BROADCAST AND TELEVISION
- DATA CENTERS
- AND MANY MORE
WHY POWER SUPPLIES FAIL
WHO DUNNIT?
PHYSICAL ASSEMBLY FAILURES

HV SUPPLY FAN FOUND FROZEN
BOOST CIRCUITS CAUGHT FIRE
DIRECTLY UNDER THE FAN
PFC/PWM CIRCUITS BLOWN TOO
TOTALLY DESTROYED FROM THE RESULTING FIRE
DIODES THAT HAD TO BE MOVED

BEFORE

AFTER
OVERHEATED MAINFRAME POWER SUPPLY
OVERHEATED MAINFRAME POWER SUPPLY

RESISTORS FOUND CHANGED FROM 2.2K TO 6.5K
PHYSICAL ASSEMBLY

CAPACITORS
SWOLLEN
EXPLODED
LEAKING
SHORTED
REDUCED CAPACITANCE
INCREASED ESR
LEAKING ACID DAMAGE
LEAKING ACID DAMAGE
INSULATION FAILURE
INSULATION FAILURE
COOLING AND FANS

TWO SEEMINGLY IDENTICAL FANS...
COOLING AND FANS

ORIGINAL

COUNTERFEIT
COOLING AND FANS

SWOLLEN POLY CAPS NEXT TO VERY HOT RESISTORS
COOLING AND FANS

3KW SUPPLY - WHERE ARE THE BAD CAPS?
TWO CAPACITORS FOUND HIDING UNDER THE TRANSFORMER LOCATION!!!

COOLING AND FANS

LOCATION!!!  LOCATION!!!  LOCATION!!!
ENVIRONMENTAL
LIGHTNING AND HV DAMAGE
SMD PARTS AND PCB RUNS DESTROYED
BURNED UP PFC CIRCUITS
ARC ACROSS PRIMARY AC INPUT
OPEN AIR ARC
FLUID DAMAGE
FLUID DAMAGE
POWER CLINIC TOP 5 REASONS FOR POWER SUPPLY FAILURES
We cannot solve our problems with the same thinking we used when we created them.

~ Albert Einstein
We Deliver Peace of Mind

SPECIAL THANKS

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