94051- Line Replaceable Unit (LRU)
The 94051 LRU power supply is a ruggedly built, modified COTS, modular design, Line Replaceable Unit) used in a Control System for a nuclear power plant. Features include N+1 redundant, hot-swappable and current sharing, with front panel status indicators and designed to meet the stringent requirements of military and critical industrial applications.

**Features**
- N+1 redundant
- Hot swappable
- Modular design for user replacement
- Front panel status indicators on front panel

**SPECIFICATIONS**

**INPUT**
- Voltage: 90-240 VAC, Single Phase
- Frequency: 47-63 Hz
- PFC Input: 0.95 minimum
- Harmonic Content: Designed to meet MIL-STD-1399
- Brownout ride-through: 50ms. minimum

**OUTPUT**
- 5 Volts Logic power: 5 VDC @ 100 A; Adjustable +/-10%
- 5 Volt memory: 5 VDC @ 3A; Adjustable +/-10%
- Dual 12 Volts: +/-12 VDC @ 1.5A Common Ground
  All DC commons isolated from chassis ground
- Power rating: 551 watts
- Efficiency: 75% typical @ full load
- Ripple: 100mv peak to peak for 5 VDC Outputs,
  200mv peak to peak for other voltages measured at 25MHz bandwidth
  over temperature range.
- Over current protection: Short Circuit and Over Current Protected
- Current sharing: Automatic
- Over voltage protection: 105-130% of nominal voltage
- Current limiting: 115% minimum of rated current @ nominal voltage (auto recovery)
- Load regulation: 1% maximum (0.5% typical) per output
- Line regulation: 0.5% maximum (0.2% typical) per output

**STATUS SIGNALS**
Power LRU: AC OK, DC OK, FAN OK

PHYSICAL
- Dimensions: 1/3 Rack Mount Chassis, (3U) 5 ¼”H x 15”D) with guide pins bushings.
- Cooling: Internal fans. Intake front and exhaust rear.
- Weight: 10 lbs
- Power Connectors:
  - J1 AC in, 5 pin
  - J2 DC out 24 pin
  - J3 DC out 24 pin

ENVIRONMENTAL
- Operating Temperature: 0°C to 50°C
- Storage Temperature: -40°C to 60°C
- Humidity: 0% to 95% Non-Condensing

Note: Unit has been designed to meet MIL-STD-1399 and MIL-STD-461.