

DCR2U-4000D-6- (48, 83.3) - (24, 16.7)

P/N 94094-1

Behlman's 94094-1 COTS power supply is a ruggedly made, highly reliable, switch mode unit in a 2U, 19" rack mount, fan cooled chassis, built for mission critical Military and Commercial airborne applications. The unit is powered from three-phase aircraft power and supplies 4000 watts of 48 VDC and 400 watts of 24 VDC outputs. This rugged power supply is built to support the rigors of airborne applications and designed to meet the input power requirements of MIL-STD-704F.

INPUT: 115/200 VAC, 3-phase, 360-440 Hz, IAW MIL-STD-704F
Power Factor 0.90 typical

OUTPUT(S):

Power: 4400 Watts
Voltage/Current: + 48VDC @ 83.3A (4000W)
Auxiliary: + 24VDC @ 16.7A (400W)
Load Regulation: 0.3% (0-100%)
Line Regulation: 0.3%
PARD-Ripple & Noise: 100 mV max. p-p
Efficiency: 84% typical.
Remote Sense: 0.5V compliance



PROTECTIVE CIRCUITS:

Current Limit: Short circuit and over-current protected.
Over Voltage Shutdown: 120% typical
Over Current Limit: 120% typical
Over Temperature: Shutdown with auto recovery.

CONTROLS / INDICATORS:

Power On/Off: Circuit Breaker with guard
Indicators: (3) LED's- INPUT OK, OUTPUT OK, FAULT

GENERAL CHARACTERISTICS:

Isolation
Input to Output: 1000 VDC
Input to Chassis: 1000 VDC
Output to Chassis: 500 VDC
Dimensional Data: 2U 19" Rack Mount chassis, 3.5" H x 17" W x 18" D.
Accepts Optional non-ball bearing slides C-300-S-120
Weight: 40 lbs. max.
Connectors: Input: J1-MS3452L24-10P
Output: J2-MS3452L32-6S
Output: J3-MS3452L32-1S

ENVIRONMENTAL:

Operating Temperature: -15 to +55 degrees C
Storage Temperature: -40 to + 100 degrees C
Cooling: Fan cooled
Air Flow: Inlet-front, Exhaust- rear

Designed to meet the following MIL Standards

Shock: MIL-STD-810G
Vibration: MIL-STD-810G
EMI/EMC: CE102, CS101, CS114, CS115, CS116, (RE102 inside external enclosure)
And RS103 IAW MIL-STD-461F

