

DCR2U-2000D-6- (28,71) - (12, 33.3) Power Supply Specifications P/N 94094

Behlman's DCR2U 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 can supply a variety of DC 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 and RTCA/DO160F.

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

OUTPUT(S):

Power: 2,400 Watts
Voltage/Current: + 28VDC @ 71A (2000W)
Auxiliary: + 12VDC @ 33.3A (400W)

Load Regulation: 0.3% (0-100%)
Line Regulation: 0.3%
PARD-Ripple & Noise: <100 mV p-p typical
Efficiency: 85% typical.
Remote Sense: 0.5V compliance
Ripple: ≤ 1% mV P-P

**PROTECTIVE CIRCUITS:**

Current Limit: Short circuit and over-current protected.
Over Voltage Shutdown: 120% typical
Over Current Limit: 120% typical
Over Temperature: Sensor to prevent thermal damage

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 Case: 1000 VDC
Output to Case: 500 VDC
Dimensional Data: 2U 19" Rack Mount chassis, 3.5" H x 17" W x 18" D. Compatible with General Devices C300S-118 (18") and -120 (20") non-ball bearing slides.
Weight: 29.8 lbs.
Connectors: Input: J1- MS3452L-24-10P
Output: J2- MS3452L-32-6S

ENVIRONMENTAL:

Operating Temperature: -15 to +50 degrees C
Storage Temperature: -40 to + 100 degrees C
Cooling: Fan cooled
Air Flow: In- front, Exhaust- rear
EMI/EMC: CE102, CS101, CS114, CS115, CS116, (RE102 inside external enclosure)

Designed to meet the following MIL Standards

Shock: MIL-STD-810F

Vibration: MIL-STD-810F

J1- Input Connector Pin Assignments

| PIN | ASSIGNMENT |
|-----|----------------------|
| A | SPARE |
| B | 115V, PHASE A, 400HZ |
| C | 115V, PHASE B, 400HZ |
| D | 115V, PHASE C, 400HZ |
| E | NEUTRAL (N/C) |
| F | EARTH GND (CHASSIS) |
| G | N/C |

J2- Output Connector Pin Assignments

| PIN | ASSIGNMENT |
|-----|------------|
| L | +12V Sense |
| M | -12V Sense |
| O | +28V Sense |
| P | 12V Out |
| R | 12V Return |
| S | -28V Sense |
| W | 28V Out |
| X | 28V Return |



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