

DCR2U- Watts*- Input- (V, A)

Critical Mission COTS Power Supply

1000-4000 Watt, rugged, reliable, fan-cooled, 2U rack mount COTS power Supply for airborne, shipboard, ground, mobile and industrial applications.

Behlman's DCR2U Critical Mission COTS power supply is a ruggedly made, highly reliable, switch mode unit in a 2U (3.50") H 19" rack mount, fan cooled chassis, built for mission critical Military and Industrial applications. The unit can be powered from three-phase aircraft or ground power or 200-375 VDC and can supply a variety of DC outputs. This rugged power supply is built to support the rigors of airborne, shipboard, ground and mobile applications and designed to meet the input power requirements of MIL-STD-704.

INPUT:

- 5 200-375 VDC
 - 6 115/200 VAC, 3-phase, 60 Hz or 57-440 Hz, IAW MIL-STD-704
- Other inputs available. Contact factory



MAIN OUTPUT(s): * S: Single, D: Dual, T: Triple, Q: Quad

- Power: 1000 to 4000 Watts
- Voltage: 3.3 VDC to 48 VDC
- Auxiliary: 3.3 VDC to 48 VDC up to 400 Watts
- Load Regulation: 0.3% (0-100%)
- Line Regulation: 0.3%
- PARD-Ripple & Noise: <100 mV p-p typical
- Remote Sense: 0.5V compliance
- Efficiency: 80% to 85% model dependent

PROTECTIVE CIRCUITS:

- Overvoltage: Shutdown at 120% typical; recovery requires source power cycling
- Overcurrent: Current limiting at 120% typical, short circuit protected w/ automatic recovery
- Overtemperature: Sensor to prevent thermal damage, shutdown w/ automatic recovery

CONTROLS / INDICATORS:

- Power On/Off: Circuit Breaker with guard
- Indicators: (3) LED's- INPUT OK, OUTPUT OK, FAULT
- Remote Shutdown: [Optional, -RS suffix] two-wire signal; contact closure disables main output(s)

GENERAL CHARACTERISTICS:

- Isolation
 - Input to Output: 2250 VDC
 - Input to Case: 2250 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: Approximately 30 lbs.
- Connectors:
 - Input: J1- MS3452L-24-10P
 - Output: J2- MS3452L Series (model specific)
 - J3- MS3452L Series (model specific) as required

ENVIRONMENTAL:

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

Designed to meet the following MIL Standards

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



TYPICAL REAR PANEL VIEW



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