

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 and RTCA/DO-160.

INPUT:

- 5 200-375 VDC
 - 6 115/200 VAC, 3-phase, 60 Hz or 57-440 Hz, IAW MIL-STD-704 and DO-160
- Other inputs available. Contact factory

OUTPUT: * 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 500 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:

- Current Limit: Short circuit and over-current protection
- 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: 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-32-6S or similar
 - J3- Available for additional output(s)

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.

OPTIONS:

Remote On/Off
Temperature controlled fans
S1- General Devices C300S-118 (18") non-ball bearing slides
S2- General Devices C300S-120 (20") non-ball bearing slides



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