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: JI- 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