Behlman’s DCL400S series of COTS Single Output power supplies are low cost, highly reliable, switch mode units built for high-end industrial or MIL applications. The DCL can accept a single or three phase AC input and can supply a variety of DC outputs. These rugged power supplies are built to support the rigors of airborne, shipboard and mobile applications, and designed to meet the input power requirements of MIL-STD-704 and RTCA-DO160. Units are Base Plate cooled.

**INPUT** (I)

Input Transient protection: Per Mil-STD-704
-1: 115 or 230 VAC, single phase; 115/200 VAC, 3 phase; 200-400 VDC.
-2: 115/200 VAC, +/- 20%, 3 phase, 47-440 Hz
-3: 115 or 230 VAC, +/- 20%, single phase, 47-440 Hz

**OUTPUT:**

Voltage: (V) 2 to 28 VDC +/-1%
Current: (A) (X) Amps. **Maximum power 400 Watts.**
Load Regulation: 1.0% no load to full load at nominal line.
Line Regulation: 0.1% for 10% line change.
PARD-Ripple & Noise: 1% of output voltage p-p maximum. (20 MHz bandwidth)
Current Limit: Constant current limited to 130% of rated current.
Over voltage: 120% typical.
Efficiency: 72% to 85% depending on model.
Remote Sense: Compensates for up to 0.5 VDC drop on output leads.

**GENERAL CHARACTERISTICS**

Isolation
- Input to Output: 1000 VDC
- Input to Case: 1000 VDC
- Output to Case: 200 VDC
Dimensional Data: 7.27"L X 5.02"W X .83"H; +/- .02"
Weight: 14 oz. typical
Input: J1: 9 pin connector
Output: J2: 13 pin connector

**ENVIRONMENTAL:**

Designed to meet the following MIL Standards
Temperature: (T) Temperature measured at the base plate. Conduction cooled via base plate.
- Operating
  - M -55°C to 100°C
  - H -40°C to 100°C
  - T -40°C to 100°C
  - C 0°C to 100°C
- Storage
  - M -55°C to 125°C
  - H -55°C to 125°C
  - T -40°C to 125°C
  - C 0°C to 125°C
Shock: MIL-S-901; MIL-STD-810
Vibration: MIL-STD-167; MIL-STD-810; RTCA/DO-160D
Humidity: MIL-STD-810
EMI/EMC: MIL-STD-461C/D; RTCA/DO-160D

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