**BEHLMAN**

**DCL 150S-(Input)-(V,A)-(Temp range)**

Behlman’s DCL150S 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 rigor of airborne, shipboard and mobile applications, and designed to meet the input power requirements of MIL-STD-704 and RTCA-DO160. Units are Based 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
  - **4:** 18 to 36 VDC
  - **5:** 115VAC +/-20%, single phase 360-440 Hz
  - **6:** 200 to 400 VDC

### OUTPUT:

- **Voltage:** (V) 2 to 28 VDC +/-1%
- **Current:** (A) (X) Amps. **Maximum power 150 Watts.**
- **Load Regulation:** 1.0% no load to full load at nominal line.
- **Line Regulation:** 0.2% 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.

### GENERAL CHARACTERISTICS

- **Isolation**
  - Input to Output: 1000 VDC
  - Input to Case: 1000 VDC
  - Output to Case: 200 VDC
- **Dimensional Data:** 4.87”L X 3.52”W X .83”H; +/- .02”
- **Weight:** 13 oz. typical
- **Input/Output:** DB 15 connector

### ENVIRONMENTAL:

- **Designed to meet the following MIL Standards**
  - **Temperature:** (T)
    - **Operating:** Temperature measured at the base plate. Conduction cooled via base plate.
    - **Storage:**
      - **-M:** -55°C to 100°C
      - **-H:** -40°C to 100°C
      - **-T:** -40°C to 100°C
      - **-C:** 0°C to 100°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