

DCL 400S-(Input)-(V,A)-(Temp range)

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:

Temperature: (T)

Designed to meet the following MIL Standards

Temperature measured at the base plate. Conduction cooled via base plate.

	Operating	Storage
-M	-55°C to 100°C	-55°C to 125°C
-H	-40°C to 100°C	-55°C to 125°C
-T	-40°C to 100°C	-40°C to 125°C
-C	0°C to 100°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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