

# Behlman Power Products

## COTS POWER SUPPLY

**MODEL:** DCS500(8)-8-(15,3.5)-(-15,3.5)-(28,2.0)-(55/65,0.6/0.7)- (50/100/190, 0.75/.6/.4)-  
(5.25,22)-(15, 0.5)-(0-5.25, 22)

**P/N: 94053**

Behlman's DCS500 series of COTS power supplies are low cost, highly reliable, switch mode units built for high-end industrial or MIL applications. The DCS500 can accept a wide range of inputs 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, MIL-STD-1399 and RTCA-DO160. Units are Base Plate cooled.

### INPUT

Input Transient protection: Per Mil-STD-1399

**-8** 115VAC, Three-Phase Delta, 47-440 HZ

### OUTPUTS:

#### Eight (8) total

1. +15Vdc @ 3.5A max
2. -15Vdc @ 3.5A max
3. +28Vdc @ 2A max
4. +55/65Vdc @ 0.6A/0.7A max (selectable)
5. +50/100/190vdc @ 0.75/0.60/0.40A max (selectable)
6. +5.25Vdc @ 22A max
7. +15VDC @ 0.5A max
8. 0 to+5.25VDC adjustable @ 22A max



### Line/Load Regulation:

Static % max 1. 2%; 2. 2%; 3. +15/-10%; 4. 1%; 5. 5%; 6. 5%; 7. 10%; 8. 5%

Dynamic % max 1. 3%; 2. 3%; 3. 3%; 4. 1%; 5. 5%; 6. 5%; 7. 2%; 8. 5%

PARD-Ripple & Noise: 1. 100mv; 2. 100mv; 3. 500mv; 4. 100mv; 5. 500mv; 6. 70mv; 7. 200mv; 8. 70mv.

Over voltage: 1. 110%; 2. 110%; 3. 115%; 4. 110%; 5. 110%; 6. 110%; 7. NA; 8. 110%

Current Limit: Short circuit and over-current protected.

Efficiency: Minimum 67%

Remote Sense: None

### GENERAL CHARACTERISTICS

#### Isolation

Input to Output: 1000 VDC

Input to Case: 1000 VDC

Output to Case: 200 VDC

Leakage: < 5uA

Dimensional Data: 9.0"L X 10.0"W X 3.75"H Excluding handles and mounting feet

Weight: 15 lbs max

J1- Input: 5 pin connector

J2- Output: 17 pin connector

J3 Output: 25 pin connector

J4 Output: 20 pin connector

### ENVIRONMENTAL:

Operating Temperature: -40 to +85 degrees C Base Plate

Storage Temperature: -40 to + 100 degrees C

### Designed to meet the following MIL Standards

Shock: MIL-S-901; MIL-STD-810

Vibration: MIL-STD-167; MIL-STD-810; RTCA/DO-160

Humidity: MIL-STD-810

EMI/EMC: MIL-STD-461C/D; RTCA/DO-160D. RE102 with proper shielding.

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