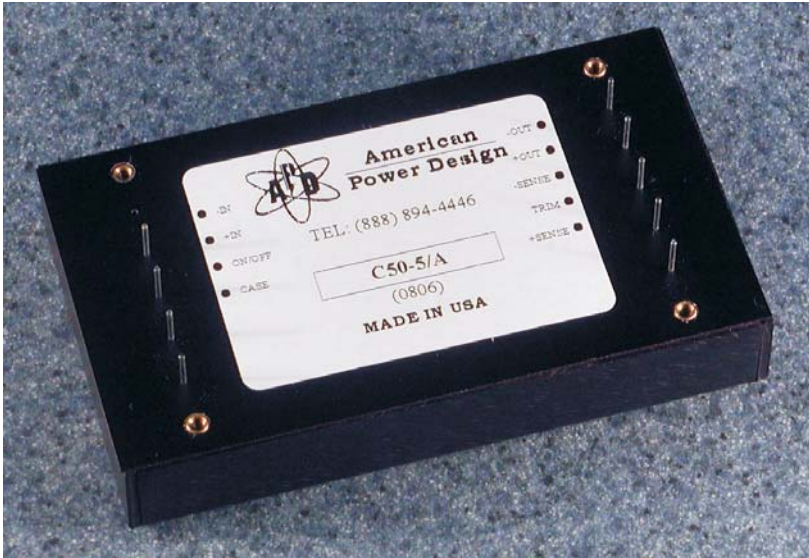




# American Power Design, Inc.

"The best high voltage design solution"

## C50 SERIES 50 WATT DC/DC CONVERTERS



## FEATURES

### \* Customer Selects Output Voltage

- \* Outputs to 28 Vdc
- \* Wide Input Ranges (10-20Vdc, 18-36Vdc, 20-60Vdc, 36-72Vdc)
- \* Excellent Line & Load Regulation
- \* Low Output Ripple
- \* 130 kHz Switching Frequency
- \* 500 Vdc Output Isolation
- \* Continuous Short Circuit Protection
- \* Available in Chassis Mount

The C50 Series of DC/DC converters offers a single output to 28Vdc and 500Vdc of isolation. They are available in either PC or Chassis mount configurations. Their rugged enclosure, low output ripple, and excellent regulation characteristics make them ideally suited for harsh environment applications that demand a high degree of performance.

All models will tolerate a short circuit indefinitely.

## ELECTRICAL SPECIFICATIONS

Voltage Accuracy ..... +/-1%  
 Line Regulation ..... +/- 1%  
 Load Regulation ..... +/- 1%  
 Output Ripple ..... < 100mVp-p

- \* 18-36 Vdc input add suffix /A
- \* 20-60 Vdc input add suffix /B
- \* 36-72 Vdc input add suffix /C

Output Trim ..... +/-10%  
 Input Filter ..... PI Network  
 Short Circuit Protection ..... Continuous  
 Switching Frequency ..... 130 kHz  
 Isolation ..... 500 Vdc

## GENERAL SPECIFICATIONS

Temp. Stability ..... +/-0.02%/°C  
 Temp. (Operating , Case) ..... -25 to +85°C  
 Temp. (Storage) ..... -40 to +125°C

\* Industrial Operating Temp. Range (-40 to +85°C) add suffix -I

EMI/RFI.....Six Sided Shield  
 Cooling ..... Convection or Forced Air  
 Thermal Shut Down ..... 100°C/+/- 5°C

- \* All models designed to meet UL 60950
- \* For RoHS Compliant part, add suffix /Y

## PHYSICAL SPECIFICATIONS

Dimensions ..... 2.75 x 4.8 x 0.92 inches  
 Weight ..... 12.6 Oz

Case Material ..... Black Coated Metal  
 (With Non-Conductive Base Plate)



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REPRESENTATIVE MODEL LISTING					
OUTPUT SPECIFICATIONS		MODEL NUMBER			
OUPUT VOLTAGE	OUPUT CURRENT	INPUT RANGE			
		10-20Vdc	18-36Vdc	20-60Vdc	36-72Vdc
5 Vdc	10 A	C50-5	C50-5/A	C50-5/B	C50-5/C
6 Vdc	8.3 A	C50-6	C50-6/A	C50-6/B	C50-6/C
9 Vdc	5.5 A	C50-9	C50-9/A	C50-9/B	C50-9/C
12 Vdc	4.2 A	C50-12	C50-12/A	C50-12/B	C50-12/C
15 Vdc	3.3 A	C50-15	C50-15/A	C50-15/B	C50-15/C
18 Vdc	2.8 A	C50-18	C50-18/A	C50-18/B	C50-18/C
21 Vdc	2.4 A	C50-21	C50-21/A	C50-21/B	C50-21/C
24 Vdc	2.1 A	C50-24	C50-24/A	C50-24/B	C50-24/C
28 Vdc	1.8 A	C50-28	C50-28/A	C50-28/B	C50-28/C

- \* 18-36 Vdc input add suffix /A
- \* 20-60 Vdc input add suffix /B
- \* 36-72 Vdc input add suffix /C
- \* RoHS Compliant add suffix /Y

