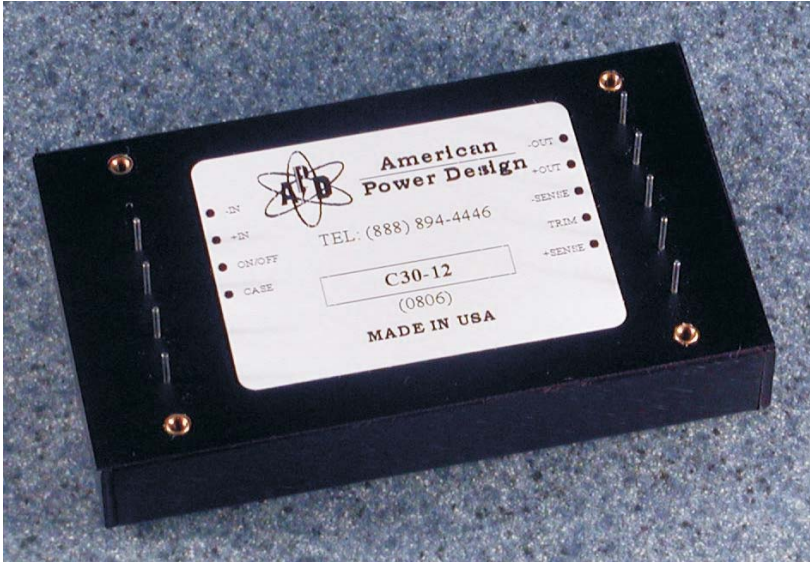




American Power Design, Inc.

"The best high voltage design solution"

C30 SERIES 30 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 C30 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 | 6.0 A | C30-5 | C30-5/A | C30-5/B | C30-5/C |
| 6 Vdc | 5.0 A | C30-6 | C30-6/A | C30-6/B | C30-6/C |
| 9 Vdc | 3.3 A | C30-9 | C30-9/A | C30-9/B | C30-9/C |
| 12 Vdc | 2.5 A | C30-12 | C30-12/A | C30-12/B | C30-12/C |
| 15 Vdc | 2.0 A | C30-15 | C30-15/A | C30-15/B | C30-15/C |
| 18 Vdc | 1.6 A | C30-18 | C30-18/A | C30-18/B | C30-18/C |
| 21 Vdc | 1.4 A | C30-21 | C30-21/A | C30-21/B | C30-21/C |
| 24 Vdc | 1.2 A | C30-24 | C30-24/A | C30-24/B | C30-24/C |
| 28 Vdc | 1.1 A | C30-28 | C30-28/A | C30-28/B | C30-28/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

