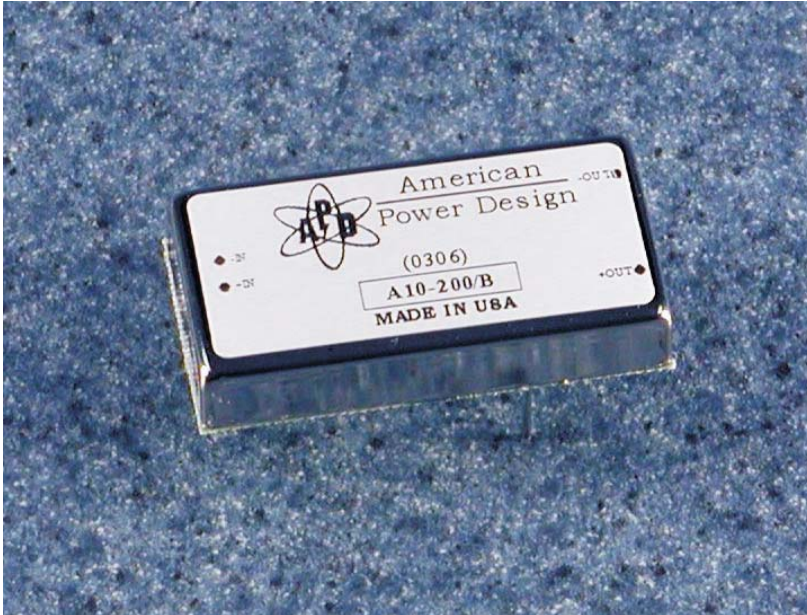




American Power Design, Inc.

"The best high voltage design solution"

A10 SERIES 10 WATT HIGH VOLTAGE DC/DC CONVERTERS



FEATURES

- * Customer Selects Output Voltage
- * Outputs to 200 Vdc
- * Low Profile
- * High Regulation
- * Ultra Wide Input Ranges
- * 1000 Vdc Output Isolation
- * Continuous Short Circuit Protection
- * Economical

The A10 Series low profile high voltage DC/DC converter offers a highly regulated high voltage isolated output in a six-sided copper case. Their small size, wide input, and excellent regulation make them ideally suited for applications that demand a high degree of performance. All models will tolerate a short circuit indefinitely.

ELECTRICAL SPECIFICATIONS

| | | | |
|------------------------|------------|--------------------------------|-------------------|
| Voltage Accuracy | +/-1% | Input Filter | Low ESR Capacitor |
| Line Regulation | +/- 0.1% | Efficiency | 83% (typ.) |
| Load Regulation | +/- 0.2% | Short Circuit Protection | Continuous |
| Output Ripple | < 0.4% P-P | Switching Frequency | 115 kHz |
| | | Isolation | 1000 Vdc |

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

GENERAL SPECIFICATIONS

| | | | |
|--------------------------------|---------------|----------------|---------------------|
| Temp. Stability | +/-0.02%/°C | EMI/RFI..... | Six Sided Shield |
| Temp. (Operating , Case) | -25 to +85°C | Derating | None |
| Temp. (Storage) | -40 to +125°C | Cooling | Free-Air Convection |

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

PHYSICAL SPECIFICATIONS

| | | | |
|------------------|---------------------|---------------------|--|
| Dimensions | 1 x 2 x 0.41 inches | Case Material | Nickel Plated Copper (With Non-Conductive Base Plate) |
| Weight | 1.2 Oz | | |



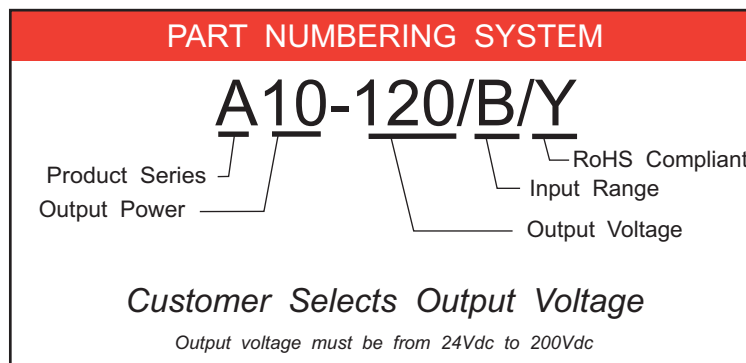
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| REPRESENTATIVE MODEL LISTING | | | | | |
|------------------------------|---------------|--------------|-----------|-----------|--|
| OUTPUT SPECIFICATIONS | | MODEL NUMBER | | | |
| OUPUT VOLTAGE | OUPUT CURRENT | INPUT RANGE | | | |
| | | 9-36Vdc | 20-60Vdc | 36-72Vdc | |
| 24 Vdc | 416 mA | A10-24 | A10-24/B | A10-24/C | |
| 48 Vdc | 208 mA | A10-48 | A10-48/B | A10-48/C | |
| 100 Vdc | 100 mA | A10-100 | A10-100/B | A10-100/C | |
| 120 Vdc | 83.3 mA | A10-120 | A10-120/B | A10-120/C | |
| 140 Vdc | 71.4 mA | A10-140 | A10-140/B | A10-140/C | |
| 150 Vdc | 66.6 mA | A10-150 | A10-150/B | A10-150/C | |
| 160 Vdc | 62.5 mA | A10-160 | A10-160/B | A10-160/C | |
| 180 Vdc | 55.5 mA | A10-180 | A10-180/B | A10-180/C | |
| 200 Vdc | 50 mA | A10-200 | A10-200/B | A10-200/C | |

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

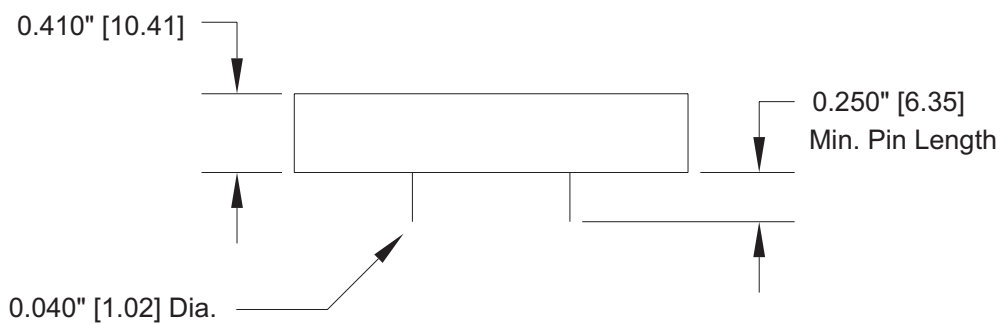
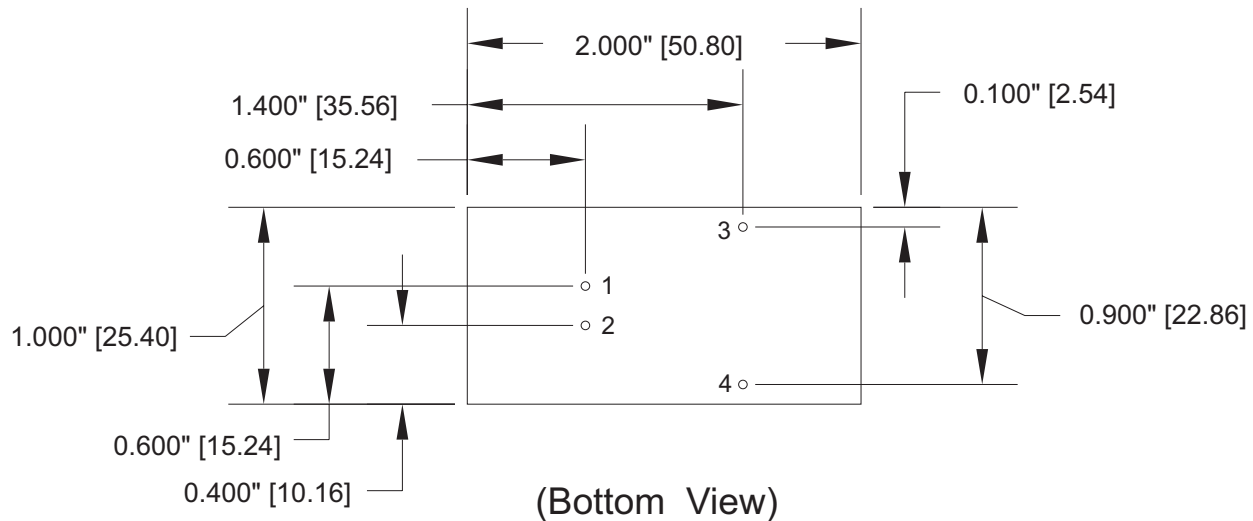




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A10 SERIES 10 WATT HIGH VOLTAGE DC/DC CONVERTERS



| Pin # | Single |
|-------|----------|
| 1 | + INPUT |
| 2 | - INPUT |
| 3 | + OUTPUT |
| 4 | - OUTPUT |

Dimensions are in Inches
[Metric equivalents in brackets]