



# American Power Design, Inc.

"The best DC/DC design solution"

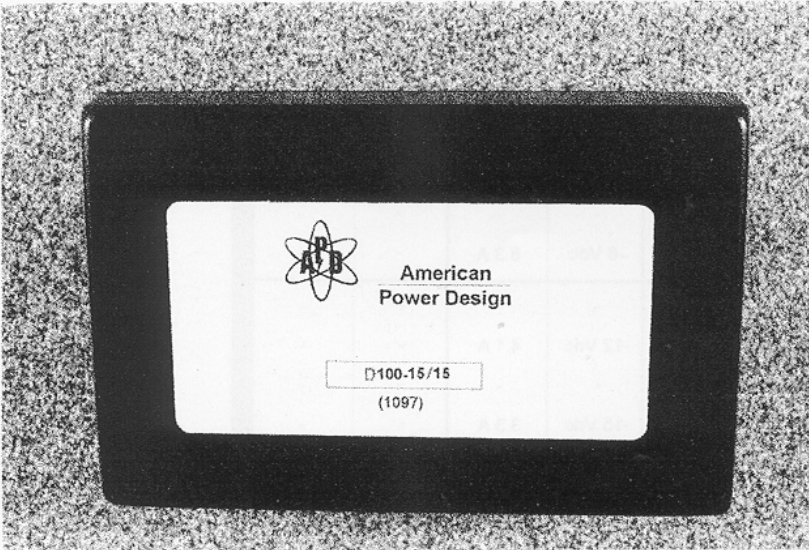
Distributed By:  
B. J. Wolfe Enterprises  
(800) 554-1224, (818) 889-8412  
Fax (818) 889-8417

## D100 SERIES 100 WATT DC/DC CONVERTERS

### FEATURES

- \* Customer Selects Output Voltage
- \* Outputs to 28 Vdc
- \* Wide Input Ranges (10-20Vdc, 18-36Vdc, 20-60Vdc)
- \* Excellent Line & Load Regulation
- \* Low Output Ripple
- \* 100 kHz Switching Frequency
- \* 500 Vdc Output Isolation
- \* Continuous Short Circuit Protected
- \* Available in Chassis Mount

The D100 Series of DC/DC converters is available with single, dual, and triple outputs which are isolated from the input. They are enclosed in a six-sided metal case. Their small size, low output ripple, and excellent regulation characteristics 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%	Output Trim (Single Output) .....	+/-10%
Line Regulation .....	+/- 1%	Input Filter .....	PI Network
Load Regulation .....	+/- 2%	Short Circuit Protection .....	Continuous
Output Ripple .....	< 100mVp-p	Switching Frequency .....	100 kHz
		Isolation .....	500 Vdc

\* 18-36Vdc Input add suffix /A, 20-60 Vdc Input add suffix /B

### GENERAL SPECIFICATIONS

Temp. Stability .....	+/-0.02%/°C	Cooling .....	Convection or Forced Air
Temp. (Operating, Case) .....	-25 to +85°C	Thermal Shut Down .....	100°C/+/- 5°C
Temp. (Storage) .....	-40 to +125°C		

### PHYSICAL SPECIFICATIONS

Dimensions .....	3.5 x 5.5 x 0.91 inches	Case Material .....	Black Coated Metal (With Non-Conductive Base Plate)
Weight .....	22 Oz		

## OTHER OUTPUT VOLTAGES & CURRENTS AVAILABLE



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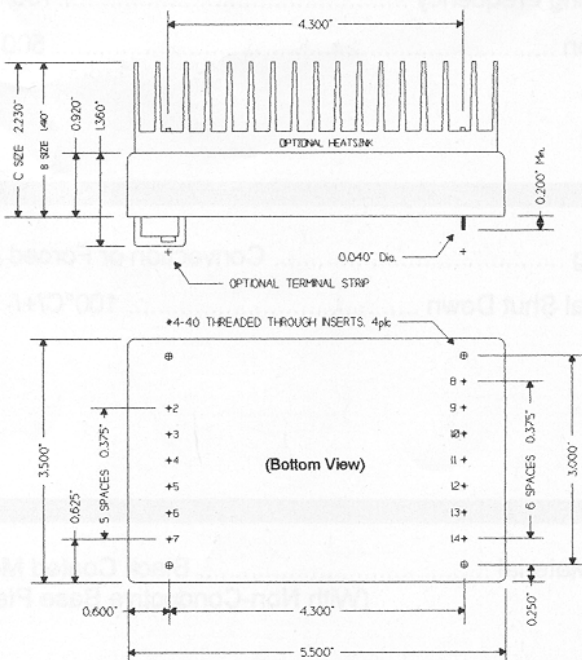
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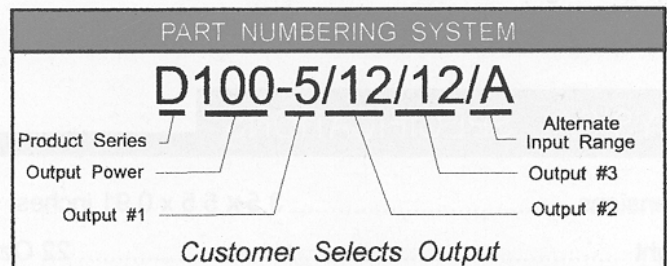
## D100 SERIES 100 WATT DC/DC CONVERTERS

REPRESENTATIVE MODEL LISTING								
MODEL NUMBER	INPUT SPECIFICATIONS		OUTPUT SPECIFICATION					
	INPUT VOLTAGE	INPUT CURRENT	OUTPUT #1		OUTPUT #2		OUTPUT #3	
			VOLTAGE	CURRENT	VOLTAGE	CURRENT	VOLTAGE	CURRENT
D100-5	10V - 20Vdc	9.8 A	+5 Vdc	20 A	-	-	-	-
D100-5/5	10V - 20Vdc	9.8 A	+5 Vdc	10 A	-5 Vdc	10 A	-	-
D100-6	10V - 20Vdc	9.8 A	+6 Vdc	16.6 A	-	-	-	-
D100-6/6	10 - 20Vdc	9.8 A	+6 Vdc	8.3 A	-6 Vdc	8.3 A	-	-
D100-12	10V - 20Vdc	9.71 A	+12 Vdc	8.3 A	-	-	-	-
D100-12/12	10V - 20Vdc	9.71 A	+12 Vdc	4.1 A	-12 Vdc	4.1 A	-	-
D100-15	10V - 20Vdc	9.71 A	+15 Vdc	6.6 A	-	-	-	-
D100-15/15	10V - 20Vdc	9.71 A	+15 Vdc	3.3 A	-15 Vdc	3.3 A	-	-
D100-12/5	10V - 20Vdc	9.78 A	+12 Vdc	4.1 A	-5 Vdc	10 A	-	-
D100-15/5	10V - 20Vdc	9.78 A	+15 Vdc	3.3 A	-5 Vdc	10 A	-	-
D100-24	10V - 20Vdc	9.68 A	+24 Vdc	4.1 A	-	-	-	-
D100-28	20V - 20Vdc	9.68 A	+28 Vdc	3.5 A	-	-	-	-
D100-5/12/12	10V - 20Vdc	9.7 A	+5 Vdc	10 A	+12 Vdc	2 A	-12 Vdc	2 A
D100-5/15/15	10V - 20Vdc	9.7 A	+5 Vdc	10 A	+15 Vdc	1.6 A	-15 Vdc	1.6 A
D100-12/5/5	10V - 20Vdc	9.7 A	+12 Vdc	4.1 A	+5 Vdc	5 A	-5 Vdc	5 A
D100-15/5/5	10V - 20Vdc	9.7 A	+15 Vdc	3.3 A	+5 Vdc	5 A	-5 Vdc	5 A

18-36 Vdc input add suffix /A , 20-60 Vdc input add suffix /B



Pin #	Single	Dual	Triple
2,3	- INPUT	- INPUT	- INPUT
4,5	+ INPUT	+ INPUT	+ INPUT
6	ON/OFF	ON/OFF	ON/OFF
7	CASE	CASE	CASE
8	- V out	- V1 Sense	- V1 Sense
9	- V out	- V1 out	- V1 out
10	+ V out	+ V1 out	+ V1 out
11	+ V out	+ V1 Sense	+ V1 Sense
12	- Sense	- V2 out	- V2 out
13	Trim	Trim	Com 2 & 3
14	+ Sense	+ V2 out	+ V3 out



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