



**Intronics
Power®**

DC 700 SERIES 15-75 WATT DC-DC CONVERTERS

FEATURES

- Up to 12 watts/cubic inch
- Efficiency to 90%
- Ultra Wide Input Voltage Range
- Thermal Overload Protection
- Six-Sided Shielding,
Low Thermal Gradient
Copper Case
- Reverse Polarity Protection

APPLICATIONS

- Telecommunications
- Transportation
- Battery Operated Equipment
- Process Control Equipment

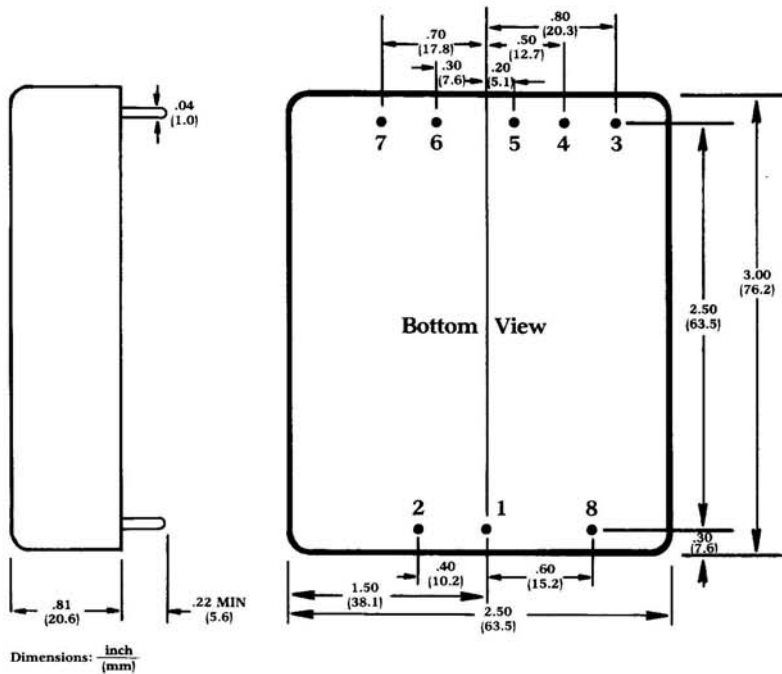


					GENERAL SPECIFICATIONS	
Model	Input Range (VDC)	Output Voltages (VDC)	Output Current (AMPS)	Eff. @ F.L. (TYP)	Input Filter	Pi
					Voltage Accuracy	± 1%
					Voltage Adjustments	± 10%
					Ripple	<1%
					Noise (<20 MHz)	<2%
					Temperature Coefficient	.02%/°C
					Regulation Line	± 0.5% Main LL-HL
					Load	± 0.5% NL-FL
					Isolation	None. Pins 2 & 7 Internally Connected
					Switching Frequency	40 KHz Typical Fixed
					Efficiency	See Table
DC702	8-40 (12V nom)	5	3	78%	FAULT PROTECTION	
DC703	8-40 (12V nom)	5	5	76%	Reverse Polarity Protection	Yes (External fuse required)
DC705	15-40 (24V nom)	12	3	88%	Overvoltage Main	Yes
DC706	15-40 (24V nom)	12	5	86%	Short Circuit	Indefinite, Auto Recovery
DC707	18-40 (24V nom)	15	3	90%	ENVIRONMENTAL	
DC708	18-40 (24V nom)	15	5	88%	Thermal Trip Point	110°C Case Temperature
CONTACT OUR SALES APPLICATION DEPARTMENT WITH YOUR CUSTOM DESIGNS AND SPECIFICATIONS. AT INTRONICS WE ARE PREPARED TO RESPOND PROMPTLY TO YOUR NEEDS.					Operating Temperature	-25°C to 70°C
					Storage Temperature	Refer to derating curve
						-40°C to 105°C

NOTES:

1. Remote sense and remote control are standard on Models DC703, DC706 and DC708.
At input voltages below nominal, current limit is 4 Amps minimum for these models.
2. Remote Control:
CMOS 0± TTL open collector
ON - 4.2 VDC or open circuit
OFF - 3.5 VDC or lower (4ma sink)

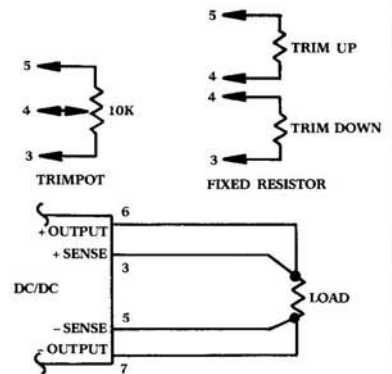
MECHANICAL OUTLINES AND CONNECTIONS



DC700 Series

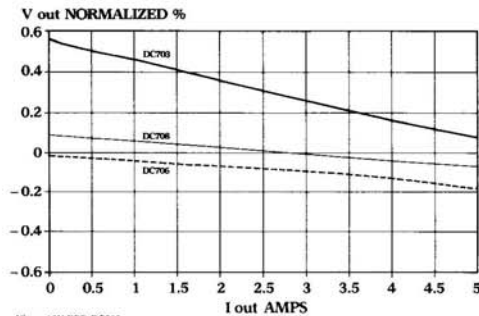
PIN	FUNCTION
1	+ INPUT
2	- INPUT
3	+ SENSE
4	TRIM
5	- SENSE
6	+ OUTPUT
7	- OUTPUT
8	ON/OFF

CONNECTIONS FOR OUTPUT TRIM

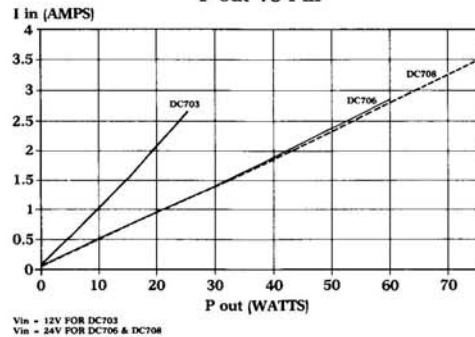


PERFORMANCE CURVES

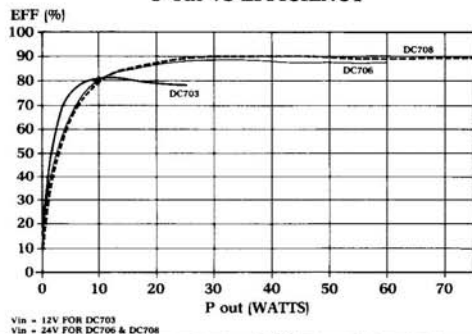
DC700 SERIES
OUTPUT REGULATION



DC700 SERIES
P out VS I in



DC700 SERIES
P out VS EFFICIENCY



DC700 SERIES
POWER DERATING CURVE

