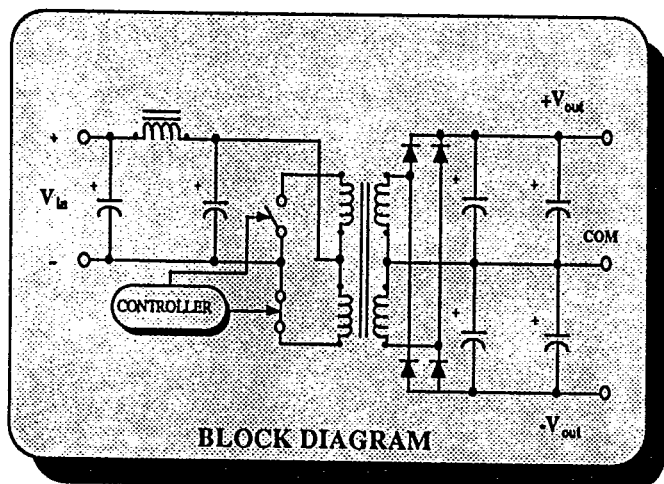
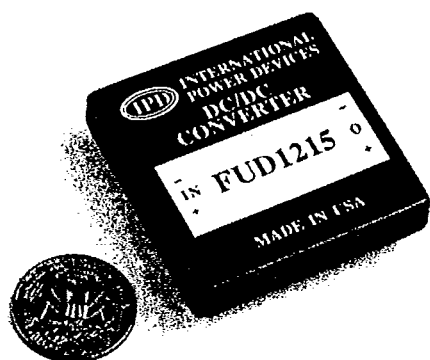




TO 10 WATT

FUD

T-57-11 SERIES



FEATURES:

- LOW .40 INCH PROFILE
- SIX-SIDED SHIELDING
- 500VDC ISOLATION
- 5, 12, AND 48 VDC INPUT

APPLICATIONS:

- A/D-D/A CONVERTERS
- TELECOMMUNICATIONS
- PROCESS CONTROL EQUIPMENT
- LOCAL POWER DISTRIBUTION

The FUD Series is a line of unregulated, dual output DC/DC converters packaged in a miniature 2 x 2 x .40 inch metal case with six-sided EMI/RFI shielding. The FUD Series is available with input voltages of 5, 12, and 48 VDC. It provides up to 83% efficiency for applications where a regulated or semiregulated input voltage source is available or where high efficiency is more important than line & load regulation. All models have short circuit protection with automatic restart upon removal of short circuit. An internal π (Pi) input filter is standard for all models to minimize reflected input ripple current for critical applications.

ELECTRICAL SPECIFICATIONS

All Specifications Typical @+25°C, Nominal Line, and Full Load Unless Otherwise Noted.

INPUT SPECIFICATIONS

Input Voltage Range $\pm 10\%$
Input Filter π (Pi) Filter

OUTPUT SPECIFICATIONS

Voltage Accuracy $\pm 3\%$, max.
Line Regulation See Table
Load Regulation See Table
Ripple and Noise, 20 MHz BW 150 mVp-p, max.
Short Circuit Protection 10 Sec., max.
Short Circuit Restart Automatic

GENERAL SPECIFICATIONS

Efficiency See Table at Right
Isolation Voltage >500 VDC
Isolation Resistance >10⁹ Ohms
Switching Frequency 20 KHz, typ.

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature Range -25°C to +71°C
Surface Temp. Rise Above Ambient 7°C/Watt Diss.
Derating None
Storage Temperature Range -40°C to +125°C
Humidity 20% to 95% R.H. (non-condensing)
Cooling Free-Air Convection
EMI/RFI Six-Sided Continuous Metal Case

PHYSICAL SPECIFICATIONS

Dimensions 2.0 x 2.0 x 0.40 Inches
(51 x 51 x 10.16 mm)
Weight 2.5 Oz. (50 g)
Case Material Black Coated Copper
(With Non-Conductive Header)

DUAL OUTPUTS

INTERNATIONAL
POWER DEVICES



INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		% EFF	REGULATION		MODEL NUMBER
			NO/LOAD	FULL/LOAD		LINE*	LOAD**	
5VDC	±5VDC	±750mA	150mA	2385mA	80	±1.2%	±8%	FUD505
	±12VDC	±415mA	150mA	2385mA	80	±1.2%	±8%	FUD512
	±15VDC	±330mA	150mA	2385mA	80	±1.2%	±8%	FUD515
	±18VDC	±300mA	270mA	2700mA	80	±1.2%	±11%	FUD518
12VDC	±5VDC	±750mA	50mA	780mA	80	±1.2%	±11%	FUD1205
	±12VDC	±415mA	32mA	937mA	88	±1.2%	±9%	FUD1212
	±15VDC	±330mA	46mA	926mA	88	±1.2%	±9%	FUD1215
48VDC	±5VDC	±750mA	15mA	190mA	80	±1.2%	±6%	FUD4805

* Line Regulation is per 1.0% change in Input Voltage.

** Load Regulation is for load change from 20% to 100%.

When Ordering Pinout "C", Please Add Suffix "C" to the Part Number.

Example: FUD505C

