

DC/DC CONVERTERS

QUAD CHANNEL

FEATURES

- QUAD CHANNEL
- BARRIER LEAKAGE CURRENT
100% TESTED AT 240VAC
- SINGLE OR DUAL UNREGULATED
OUTPUTS

- WIDE OPERATING TEMPERATURE RANGE:
-40° TO +100°C
- INPUT AND OUTPUT FILTERING
- SIX-SIDED SHIELDING

DESCRIPTION

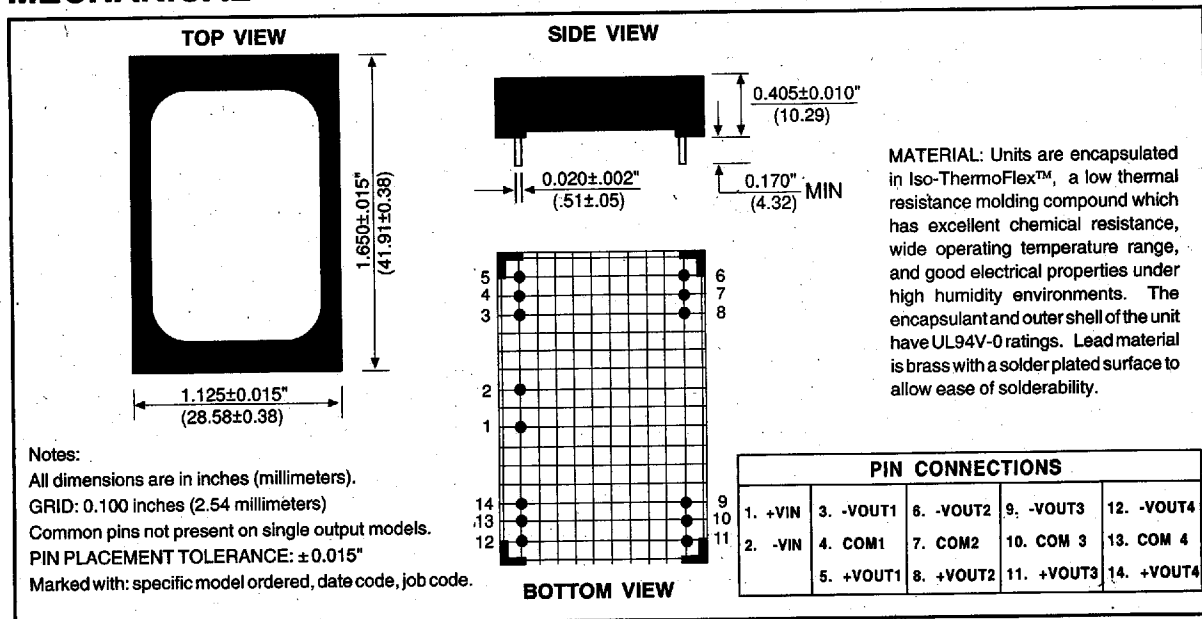
The PWR5XX Series offers a large selection of unregulated 4W DC/DC converters for use in such diverse applications as process control, telecommunications, portable equipment, medical systems, airborne and shipboard electronic circuits, and automatic test equipment.

Thirty-six models allow the user to select input

voltages of 5VDC to 48 VDC and output voltages of 5, 12, 15, ±5, ±12, or ±15V.

Surface-mounted devices and manufacturing processes used in the PWR5XX Series provides the user a device that is environmentally rugged. Surface-mount technologies also gives the PWR5XX Series superior isolation voltage.

MECHANICAL



ELECTRICAL SPECIFICATIONS

Specifications typical at $T_A = +25^\circ\text{C}$, nominal input voltage, rated output current unless otherwise noted.

MODEL	NOMINAL INPUT VOLTAGE (VDC)	RATED OUTPUT VOLTAGE (VDC)	RATED OUTPUT CURRENT (mA)	MAXIMUM INPUT CURRENT (mA)
PWR500	5	5	200	1300
PWR501	5	12	84	1290
PWR502	5	15	67	1230
PWR503	5	± 5	± 100	1300
PWR504	5	± 12	± 42	1290
PWR505	5	± 15	± 34	1230
PWR506	12	5	200	490
PWR507	12	12	84	444
PWR508	12	15	67	444
PWR509	12	± 5	± 100	490
PWR510	12	± 12	± 42	444
PWR511	12	± 15	± 34	444
PWR512	15	5	200	390
PWR513	15	12	84	355
PWR514	15	15	67	355
PWR515	15	± 5	± 100	390
PWR516	15	± 12	± 42	355
PWR517	15	± 15	± 34	355
PWR518	24	5	200	245
PWR519	24	12	84	222
PWR520	24	15	67	222
PWR521	24	± 5	± 100	245
PWR522	24	± 12	± 42	222
PWR523	24	± 15	± 34	222
PWR524	28	5	200	210
PWR525	28	12	84	190
PWR526	28	15	67	190
PWR527	28	± 5	± 100	222
PWR528	28	± 12	± 42	190
PWR529	28	± 15	± 34	190
PWR530	48	5	200	123
PWR531	48	12	84	111
PWR532	48	15	67	111
PWR533	48	± 5	± 100	123
PWR534	48	± 12	± 42	111
PWR535	48	± 15	± 34	111

NOTE: Other input to output voltages may be available. Please consult factory.

COMMON SPECIFICATIONS

Specifications typical at $T_A = +25^\circ\text{C}$, nominal input voltage, rated output current unless otherwise noted.

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
INPUT Voltage Range Input Ripple Current	$I_{LOAD} = \text{Rated Load}$		70	$\pm 20\%$	Nominal mA, p-p
ISOLATION Rated Voltage Test Voltage Resistance Capacitance Leakage Current	60Hz, 60 Seconds $V_{ISO} = 240\text{VAC}$	750 750	10 55	15	VDC Vpk GΩ pF μA
OUTPUT Voltage Setpoint Accuracy Voltage Ripple Voltage Line Regulation	Rated Load, Nominal V_{IN} No Load, $V_{OUT} = 5\text{V Models}$ No Load, $V_{OUT} = 12\text{V Models}$ No Load, $V_{OUT} = 15\text{V Models}$ No Load, $I_{LOAD} = \text{Rated Load}$			± 5 7 15 18	% VDC VDC VDC % of $V_{OUT, p-p}$ %/%
GENERAL Switching Frequency Package Weight			100 20		kHz g
TEMPERATURE Specification Operation Storage		-25 -40 -40	+25	+85 +100 +110	$^\circ\text{C}$ $^\circ\text{C}$ $^\circ\text{C}$

ABSOLUTE MAXIMUM RATINGS

Internal Power Dissipation.....	2.5W
Short Circuit Protection.....	<1 second
Lead Temperature (soldering, 10 seconds max).....	+300°C