

Product Data Sheet

3 WATT UNREGULATED WIDE INPUT RANGE DC/DC CONVERTER

PWR72

FEATURES

Low Price

• High Power Output: 3 Watts

● Wide Input Voltage Range: 5VDC To 22VDC

 Isolation Barrier 100% Tested Per UL544, VDE750, and CSA C22.2 Dielectric Withstand

 Isolation Barrier Leakage Current 100% Tested At 240VAC: 3µA Max

• Low Isolation Barrier Capacitance: 10pF

Single-Channel; Dual Output

Six-Sided Shielding

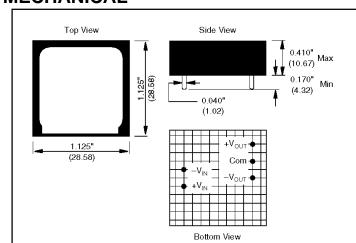
DESCRIPTION

The PWR72 is a 3W, single-channel, dual-output DC/DC converter designed for low cost spot power conversion and ground elimination applications.

It provides a plus and minus output voltage approximately equal to the input voltage magnitude. The PWR72 operates over a wide range of input voltages from 5VDC to 22VDC. Its unregulated outputs give the PWR72 high efficiency power conversion.

Surface-mounted devices and manufacturing processes are used in the PWR72 to give the user a device which is more environmentally rugged than most DC/DC converters. The use of surface-mounted technologies also gives the PWR72 superior isolation voltage. A third advantage of using surface-mounted technologies is low manufacturing cost.

MECHANICAL



NOTES: All dimensions are in inches (millimeters).

GRID: 0.100 inches (2.54 millimeters) Marked with: specific model ordered, date code, job code.

MATERIAL: Units are encapsulated in a low thermal resistance molding compound which has excellent chemical resistance, wide operating temperature range, and good electrical properties under high humidity environments. Lead material is brass with a solder plated surface to allow ease of solderability.

Internet: http://www.cdpowerelectronics.com

ELECTRICAL SPECIFICATIONS

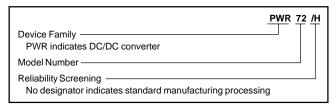
At $T_A = +25$ °C, $+V_{IN} = 15$ VDC, and $I_{OUT} = \pm 100$ mA unless otherwise noted.

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
INPUT Rated Voltage Voltage Range Input Current	$I_{LOAD} = 0$ $I_{LOAD} = Rated Load$	5	15 40 280	22 330	VDC VDC mA mA
Ripple Current	$I_{LOAD} = 0$ $I_{LOAD} = Rated Load$		15 150		mApk mAp-p
ISOLATION Rated Voltage Test Voltage Resistance Capacitance Leakage Current	60s, 60Hz V _{ISO} = 240VAC, 60Hz	1000 3000	10 10	3	Vbc Vpk GΩ pF μA
OUTPUT Rated Voltage Voltage Range	I _{out} = No Load I _{out} = Rated Load	±15 ±14.25	±15	±20 ±15.75	VDC VDC VDC
Rated Power Rated Current	Total of All Outputs		3	100 200	W mA mA
Current Range Line Regulation Load Regulation Ripple Voltage	Each Output Total of All Outputs 10Vpc - V _{IN} - 18Vpc 0mA - I _{LOAD} - 100mA I _{LOAD} = 0 I _{LOAD} = Rated Load	0	1.15 15 30	±150 300 150	mA mA V/V mV/mA mVpk mVpk
TEMPERATURE Specification Operating Storage		-25 -40 -55		+85 +100 +125	ဝံ့ ဝဲဝဲ့

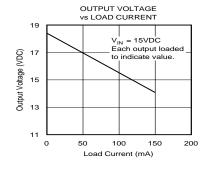
ABSOLUTE MAXIMUM RATINGS

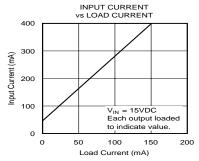
Input Voltage Output Short-Circuit Duration	22VDC
Output Short-Circuit Duration	Xs
Internal Power Dissipation	
Junction Temperature	+175°C
Package Thermal Resistance	13°C/W
Lead Temperature (Soldering, 10s)	+300°C

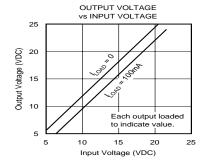
ORDERING INFORMATION

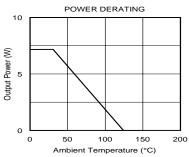


TYPICAL PERFORMANCE CURVES Typical at T_A = +25°C, nominal input voltage, and rated output current unless otherwise noted.









The information provided herein is believed to be reliable; however, C&D TECHNOLOGIES assumes no responsibility for inaccuracies or omissions. C&D TECHNOLOGIES assumes no responsibility for the use of this information, and all use of such information shall be entirely at the user's own risk. Prices and specifications are subject to change without notice. No patent rights or licenses to any of the circuits described herein are implied or granted to any third party. C&D TECHNOLOGIES does not authorize or warrant any C&D TECHNOLOGIES product for use in life support devices/systems or in aircraft control applications.

Page 2 PWR72 5/99 REV B