

Product Data Sheet

9 WATTS REGULATED DC/DC CONVERTERS

PWR51XX

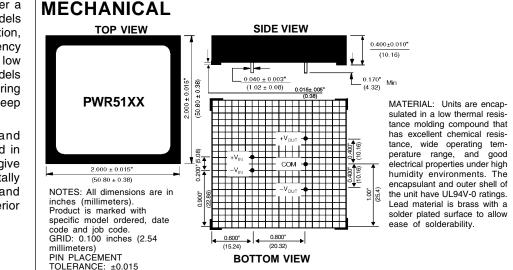


FEATURES

- LOW COST
- LOW NOISE
- LINEAR OUTPUT REGULATION
- WIDE OPERATING TEMPERATURE RANGE: -40°C TO +100°C
- ±12Vpc AND ±15Vpc OUTPUTS
- INPUT AND OUTPUT FILTERING
- SIX-SIDED SHIELDING
- BARRIER LEAKAGE CURRENT 100% TESTED AT 240Vac

APPLICATIONS

- PROCESS CONTROL
- TELECOMMUNICATIONS
- PORTABLE EQUIPMENT
- MEDICAL SYSTEMS
- AIRBORNE AND SHIPBOARD ELECTRONIC CIRCUITS
- AUTOMATIC TEST EQUIPMENT



Internet: http://www.cdpowerelectronics.com

Power Electronics Division, United States 3400 E Britannia Drive, Tucson, Arizona 85706 Phone: 520.295.4100 Fax: 520.770.9369 Power Electronics Division, EuropeC&D Technologies (Power Electronics) Ltd.132 Shannon Industrial Estate, Shannon, Co. Clare, IrelandTel: +353.61.474.133Fax:+353.61.474.141

DESCRIPTION

The PWR5104 and PWR5105 offer respectively ± 12 VDc and ± 15 VDc outputs of regulated 9W power driven from your ± 5 V system bus. These units are designed for use in such diverse applications as process control, telecommunications, portable equipment, medical systems, airborne and shipboard electronic circuits, and automatic test equipment.

The PWR5104 and PWR5105 offer a low-cost alternative to other models currently on the market. In addition, these models utilize high frequency switching in order to maintain a low EMI and RFI environment. Both models incorporate input and output filtering along with six-sided shielding to keep unwanted noise from your circuit.

Surface-mounted devices and manufacturing processes are used in the PWR5104 and PWR5105 to give you a device that is environmentally rugged. These manufacturing and design technologies also give superior isolation voltage.

ELECTRICAL SPECIFICATIONS

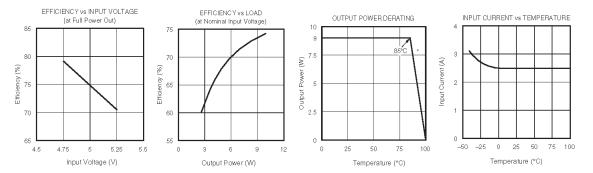
Specifications typical at $T_A = +25^{\circ}$ C, nominal input voltage, rated output current unless otherwise noted.

PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNITS
INPUT					
Nominal Voltage			5		VDC
Voltage Range		4.75		5.25	VDC
Input Current	No Load		60		mA
	RatedLoad		2400	2570	mA
Ripple Current	RatedLoad		5		mAp-p
OUTPUT					
PWR5104 Rated Voltage			±12		VDC
Rated Current				±375	mA
PWR5105 Rated Voltage			±15		VDC
Rated Current				±300	mA
Setpoint Accuracy	Rated Load, Nominal V _{IN}		±0.5	±1.0%	%
Voltage Balance			±0.3		%
Temperature Coefficient	–25°C to +85°C		±0.01		%/°C
Ripple and Noise	BW = DC to 10MHz		6	35	mVp-p
Line Regulation			0.02		%
Load Regulation			0.04		%
Efficiency		70	75		%
ISOLATION					
Rated Voltage		750			VDC
Test Voltage	60 Hz, 10 Seconds	750			mVp-p
Resistance			10		GΩ
Capacitance			50		pF
Leakage Current	240Vrms, 60Hz			15	μArms
GENERAL					
Switching Frequency			50		kHz
Package Weight			50		g
TEMPERATURE					
Specification		-25	+25	+85	°C
Operation		-40		+100	°C
Storage		-55		+125	°C

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

TYPICAL PERFORMANCE CURVES

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



ABSOLUTE MAXIMUM RATINGS

Input Voltage	5.5Vpc
Output Short Circuit Duration	
Internal Power Dissipation	4W
Lead Temperature (soldering, 10 seconds max)	+300°C

ORDERING INFORMATION

Device Family PWR indicates DC/DC converter —	PWR	<u>51XX</u>	<u>/H</u>	
Model Number				
Selected From Table of Electrical Specifications				
Screening Option				

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.