

PWR70C Series

3 Watt, High Isolation, Unregulated DC/DC Converters

FEATURES

- Tested in compliance with UL544
- Output power to 3W
- High isolation voltage: 5000Vpk tested
- Six-sided shielding
- Input and output filtering
- Low profile package: 0.4" High

APPLICATIONS

- Power for data acquisition, op amps, etc.
- Process control
- Portable equipment
- Test equipment

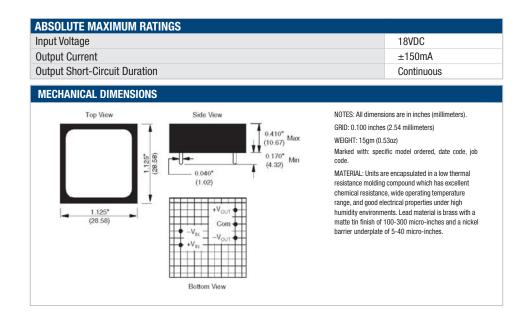
PRODUCT OVERVIEW

The PWR70C is a dual-output DC/DC converter designed for general purpose power conversion applications where high efficiency is more important than load regulation.

The PWR70C provides a bipolar output voltage approximately equal to the input voltage magnitude. It operates over an input voltage range of 10VDC to 18VDC. Isolation voltage is tested at 5000Vpk.

Six-sided shielding suppresses electromagnetic radiation which could disturb sensitive analog measurements or interfere with system timing signals. Input filtering minimizes reflected ripple current. Output ripple voltage and switching transients are reduced by filtering the PWR70C outputs.

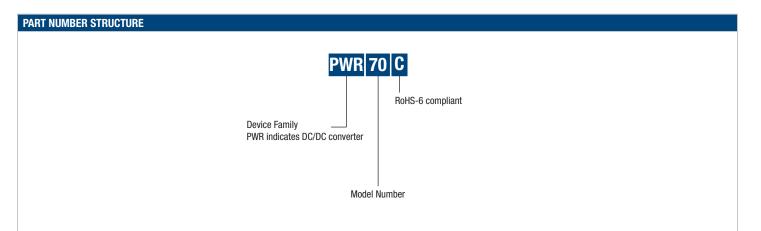
The PWR70C is tested in compliance with UL544, VDE750, and CSA C22.2 dielectric withstand voltage requirements.







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ELECTRICAL SPECIFICATIONS

At Ta = +25°C, +Vin = 15VDC, and $Iout = \pm 15mA$ unless otherwise noted.

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
INPUT Rated Voltage Voltage Range		10	15	18	VDC VDC
Input Current	I _{OUT} = ±3mA		25	150	mA mA
Ripple Current	$I_{\text{OUT}} = \pm 33\text{mA}$ $I_{\text{OUT}} = \pm 33\text{mA}$		10	150	mAp-p
ISOLATION Toot Voltage	60a 60H-	5000			Vole
Test Voltage Resistance	60s, 60Hz	5000	10		Vpk G Ω
Capacitance			12		pF
Leakage Current	V _{ISO} = 240VAC, 60Hz			2	μΑ
OUTPUT			45		VDO
Rated Voltage Voltage Accuracy			±15	±5	VDC %
Rated Current			±15		mA
Current Range	10//00 //: 10//00	0	4.00	±100	mA V/V
Line Regulation Load Regulation	10VDC < Vin < 18VDC ±3mA < lout < ±33mA		1.08 35		mV/mA
Ripple Voltage	lout = $\pm 3mA$		10		mVp-p
	lout = ±33mA			80	mVp-p
TEMPERATURE					
Specification Operating		–25 –55		+85 +125	°C °C
Storage		-65		+150	°C

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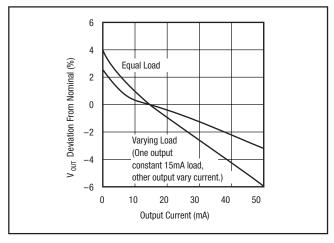


FIGURE 1. Load Regulation.

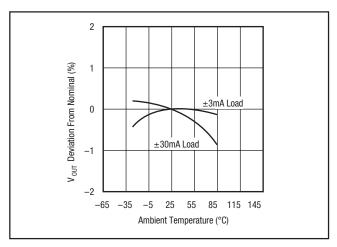


FIGURE 2. Temperature Drift.

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