

**International
Power Sources, Inc.**

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- Regulated and Non Regulated Outputs
- Inputs 5 and 12 VDC
- Outputs (Floating) 5, 12, 15, \pm 12, \pm 15 VDC
- Standard Industry Pinout
- Input Filter Included

*Now you can get TWICE the POWER
in the standard Industry Pinout.*

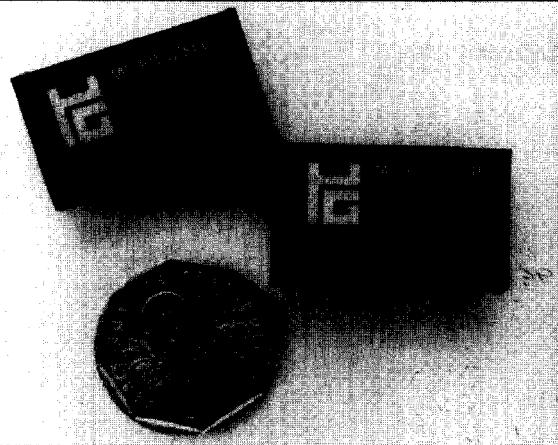
Description

International Power Sources, Inc. brings to the United States the Micro Gisco 4CCN/R Series of Regulated and Unregulated DC/DC converters. This family of devices utilizes thick film hybrid technology to provide up to 4 watts—twice the output power of competitive units in the package pinout which has become the industry standard. The 4CCN/R series consists of regulated and unregulated units in five different output models in two input ranges. All units are enclosed in a plastic case which is internally connected to provide six sided RFI shielding. Foldback short circuit protection is standard on all regulated models. Non regulated units are protected indefinitely by means of a patented input power limiting circuit.

On special request, other input and output models are available for large volume applications.

Environmental Specifications

Temperature Range	-25 to + 70°C
Storage Temperature	-50 to + 125°C
Damp Heat Test.....	56 days 40°C 95% rh
Weight.....	12 g
I/O Isolation.....	500 VDC
Shielding.....	6 sided



Miniature Hybrid 2-4 Watt DC/DC Converters 4CCR/4CCN Series

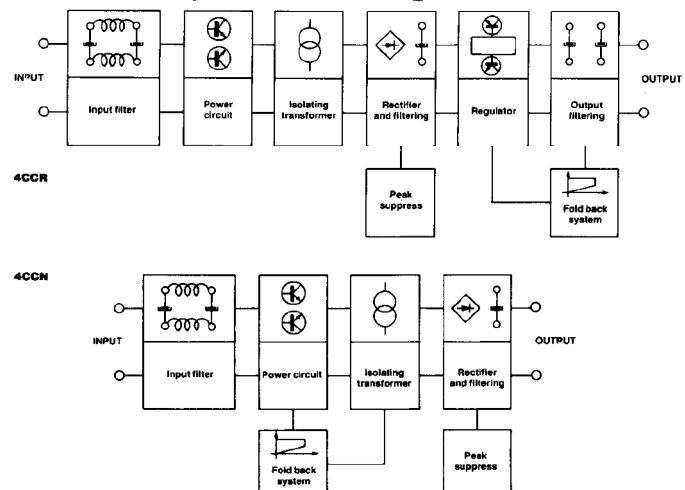
Electrical Specifications

Typical @ +25°C after warm up.

Input voltage V_{IN}	5V	12V
Input voltage range	Regulated $\pm 5\%$ Unregulated $\pm 10\%$	$\pm 10\%$ $\pm 10\%$
Input overvoltage (volts)	12	22
Max. input current (A)	Regulated 1 Unregulated 1.2	0.40 0.45
Short circuit protection (fold back)	Regulated 150% Unregulated 150-200%	150% 150-200%
Regulation		
Line/Load (20% to 100%)	Regulated 1%	0.5%
Line Load (50% to 100%)	Unregulated $1\%/\% \Delta V_{IN}$ Unregulated -0 to + 20%	$1\%/\% \Delta V_{IN}$ -0 to + 20%
Input reflected noise (mV pp)	150	150
Output voltage V_{OUT}	$\pm 5\%$	$\pm 5\%$
Output ripple and noise (mV pp)	Regulated 50 Unregulated 150	50 150

Specifications subject to change without notice.

Block Diagram—Unregulated



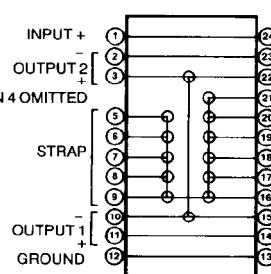
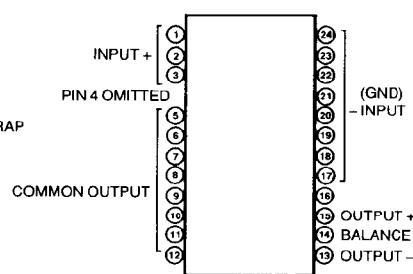
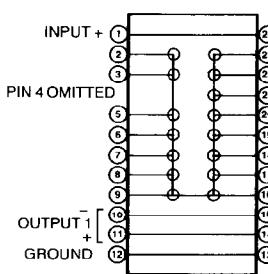
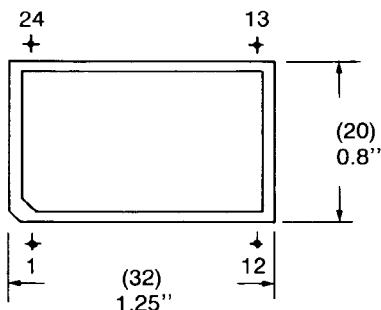
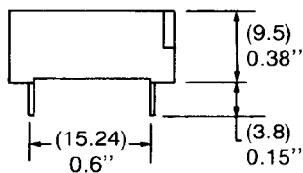
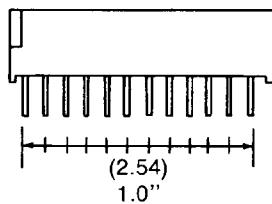
Ordering Guide

	MODEL	V _{IN}	V _{OUT} /I _{OUT}	POWER	PACKAGE*	PRICE (1-24)
Unregulated	4CCN 0505 S	5V	5V/600mA	3.0W	A	\$38
	4CCN 0512 S	5V	12V/290mA	3.5W	A	\$38
	4CCN 0515 S	5V	15V/235mA	3.5W	A	\$38
	4CCN 1205 S	12V	5V/700mA	3.5W	A	\$38
	4CCN 1212 S	12V	12V/330mA	4.0W	A	\$38
	4CCN 1215 S	12V	15V/265mA	4.0W	A	\$38
	4CCN 0512 D	5V	± 12V/ ± 145mA	3.5W	C	\$38
	4CCN 0515 D	5V	± 15V/ ± 115mA	3.5W	C	\$38
	4CCN 1212 D	12V	± 12V/ ± 165mA	4.0W	C	\$38
	4CCN 1215 D	12V	± 15V/ ± 130mA	4.0W	C	\$38
Regulated	4CCR 0505 S	5V	+ 5V/400mA	2.0W	A	\$59
	4CCR 0512 S	5V	+ 12V/210mA	2.5W	A	\$59
	4CCR 0515 S	5V	+ 15V/165mA	2.5W	A	\$59
	4CCR 1205 S	12V	+ 5V/500mA	2.5W	A	\$59
	4CCR 1212 S	12V	+ 12V/250mA	3.0W	A	\$59
	4CCR 1215 S	12V	+ 15V/200mA	3.0W	A	\$59
	4CCR 0512 D	5V	± 12V/ ± 105mA	2.5W	B	\$59
	4CCR 0515 D	5V	± 15V/ ± 85mA	2.5W	B	\$59
	4CCR 1212 D	12V	± 12V/ ± 125mA	3.0W	B	\$59
	4CCR 1215 D	12V	± 15V/ ± 100mA	3.0W	B	\$59

Other models available upon request.

*12 pin package configuration available Fall 1985.

Dimensions and Pinout (m/m) inches



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