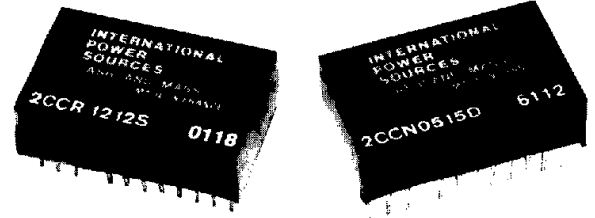


# International Power Sources, Inc.

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 Ashland, Massachusetts 01721  
 Tel. (508) 881-7434 Fax (800) 226-2100

# DC/DC Converters



## 2CCN/2CCR SERIES 1 - 2 WATT HYBRID

### FEATURES

- Input/Output Isolation
- Input  $\pi$  Filter
- Thick Film Construction
- Short Circuit Protection
- 80 kHz Switching
- Industry Standard Pinouts

### ORDERING GUIDE

	MODEL	V <sub>IN</sub>	V <sub>OUT</sub> / I <sub>OUT</sub>	POWER	PACKAGE*
Unregulated	2CCN 0505 S	5V	5V/200mA	1.0W	A
	2CCN 0509 S	5V	9V/250mA	2.2W	A
	2CCN 0512 S	5V	12V/80mA	1.0W	A
	2CCN 0515 S	5V	15V/65mA	1.0W	A
	2CCN 1205 S	12V	5V/200mA	1.0W	A
	2CCN 1209 S	12V	9V/250mA	2.2W	A
	2CCN 1212 S	12V	12V/80mA	1.0W	A
	2CCN 1215 S	12V	15V 65mA	1.0W	A
	2CCN 0512 D	5V	± 12V/ ± 40mA	1.0W	C
	2CCN 0515 D	5V	± 15V/ ± 33mA	1.0W	C
	2CCN 1212 D	12V	± 12V/ ± 40mA	1.0W	C
	2CCN 1215 D	12V	± 15V/ ± 33mA	1.0W	C
Regulated	2CCR 0505 S	5V	5V/100mA	0.5W	A/X
	2CCR 0512 S	5V	12V/100mA	1.2W	A/X
	2CCR 0515 S	5V	15V/100mA	1.5W	A/X
	2CCR 1205 S	12V	5V/100mA	0.5W	A/X
	2CCR 1212 S	12V	12V/100mA	1.2W	A/X
	2CCR 1215 S	12V	15V/100mA	1.5W	A/X
	2CCR 0512 D	5V	± 12V/ ± 80mA	2.0W	B/X
	2CCR 0515 D	5V	± 15V/ ± 65mA	2.0W	B/X
	2CCR 1212 D	12V	± 12V/ ± 80mA	2.0W	B/X
	2CCR 1215 D	12V	± 15V ± 65mA	2.0W	B/X

\*Add suffix "X" to part number for 12 pin package.

All specifications typical at nominal line, full load and 25°C

OUTPUT SPECIFICATIONS		2CCN	2CCR
Output Voltage Accuracy		±5%	
Line Regulation (Full Input Range)		1%/1% of Vin	.5%
Load Regulation (50% to 100% Load)	+20% to 0% (50% to 100% Load)	.5%	
Ripple and Noise (DC-20MHz)		80mVpp*	50mVpp*
Short Circuit Protection		Continuous	
INPUT SPECIFICATIONS			
Input Voltage Range		±10%	
Input Filter		π Network	
GENERAL SPECIFICATIONS			
Switching Frequency		80 kHz	
Efficiency		70% typical	60% typical
Isolation Voltage		500VDC	
Isolation Resistance		100MΩ	
Weight		10 grams	
ENVIRONMENTAL SPECIFICATIONS			
Operating Temperature		-25°C to +71°C	
Storage Temperature		-50°C to +125°C	

\*Reduced to 20 mVpp with 15μF Tantalum Capacitor Across Outputs

