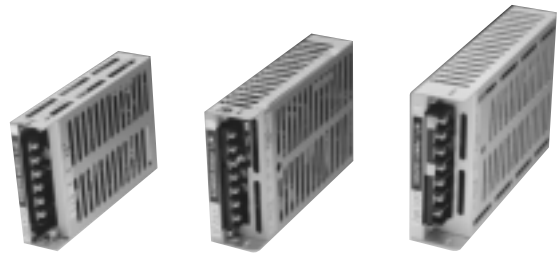


International Power Sources, Inc.

260 Hopping Brook Road
Holliston, Massachusetts 01746
Tel. (508) 429-4440 Fax (800) 226-2100
<http://www.intlpower.com>

DC/DC Converters



15, 25 and 50 WATT

FEATURES

- Efficiency to 86%
- Wide Input Ranges
- Adjustable Outputs
- Isolated Outputs
- Input/Output Protection
- Compact Size/Light Weight

ORDERING GUIDE: Series/Input Code/Output Code

Example: DCC 201 - 50 Watt Series, 24 Volt Input, 5 Volt Output @ 10 AMPS

Series	Output
DCA	15 Watts
DCB	25 Watts
DCC	40/50 Watts

Input Code	Input Range
1	12 volt nominal (9-16VDC)
2	24 volt nominal (19-32VDC)
3	48 volt nominal (38-63VDC)
4	110 volt nominal (85-140VDC)

Output Code
From Chart Below

SERIES		DCA	DCB	DCC
OUTPUT CODE	OUTPUT VOLTAGE(S)	OUTPUT CURRENT(S)	OUTPUT CURRENT(S)	OUTPUT* CURRENT(S)
01	5VDC	3.0A	5.0A	10(8)A
02	12VDC	1.2A	2.1A	4.3(3.3)A
03	15VDC	1.0A	1.7A	3.4(2.7)A
04	24VDC	.62A	1.1 A	2.5(1.7)A
05	+12VDC	.75A	1.2A	2.0(2.0)A
	-12VDC	.5A	.9A	1.7(1.5)A
06	+15VDC	.5A	1.0A	1.7(1.5)A
	-15VDC	.5A	.7A	1.5(1.3)A
07	5VDC	1.8A	2.8A	5.0A
	+12VDC	.15A	.5A	.83(.73)A
	-12VDC	.15A	.5A	.83(.73)A
08	5VDC	1.8A	2.8A	5.0A
	+15VDC	.15A	.36A	.65(.58)A
	-15VDC	.15A	.36A	.65(.58)A
10	48VDC	—	0.5A	1(0.8)A

* Output current on 12 volt input model in ().

ELECTRICAL SPECIFICATIONS:

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

OUTPUT SPECIFICATIONS		DCA	DCB	DCC
Voltage Adjustment ¹			±5%	
Line Regulation (Full Input Range)			.8%	
Load Regulation (No Load-Full Load)			.9%	
Ripple and Noise (DC-100MHz)			.5% of Vout & 50mV p-p	
Temperature Coefficient			.03%/°C	
Overvoltage			Zener Diode	
Short Circuit Protection			Foldback Current Limit	
INPUT SPECIFICATIONS				
Input Voltage Range			See Table	
Input Filter			π Network	
Input Protection			Input Fuse	
GENERAL SPECIFICATIONS				
Switching Frequency			50 kHz Typical	
Efficiency			75% Typical	
Isolation (Input-Output-Case)			50 Mohm (500VDC)	
Weight		250g	350g	410g
ENVIRONMENTAL SPECIFICATIONS				
Operating Temperature			0°C to 50°C (no derating)	
Storage Temperature			-20°C to 85°C	
EMI/RFI			Metal Case	

SERIES	DCA			DCB			DCC		
Terminal	Single Output	Dual Output	Triple Output	Single Output	Dual Output	Triple Output	Single Output	Dual Output	Triple Output
0	—	—	Case Gnd (FG)	Case Gnd (FG)	—	Case Gnd (FG)	—	—	Case Gnd (FG)
1	-VIN	-VIN	-VIN	+VIN	+VIN	+VIN	Case Gnd (FG)	+VIN	+VIN
2	+VIN	+VIN	+VIN	-VIN	-VIN	-VIN	+VIN	-VIN	-VIN
3	Case Gnd (FG)	Case Gnd (FG)	-V ₃	Filter Gnd (LFG)	Case Gnd (FG)	-V ₃	-VIN	Case Gnd (FG)	-V ₃
4	—	-VO _{UT}	V ₂	—	+V ₂	V _{2,3} Common	Filter Gnd (LFG)	+V ₂	V _{2,3} Common
5	-VO _{UT}	Common	Common	—	-V ₂	+V ₂	-VO _{UT}	-V ₂	+V ₂
6	+VO _{UT}	+VO _{UT}	V ₁	-VO _{UT}	+V ₁	+V ₁	+VO _{UT}	+V ₁	+V ₁
7	—	—	—	+VO _{UT}	-V ₁	-V ₁	—	-V ₁	-V ₁

Dimension	DCA	DCB	DCC
A	4.64(118)	5.31(135)	6.30(160)
B	3.15(80)	3.35(85)	3.78(96)
C	.98(25)	1.22(31)	1.30(33)
D	2.76(70)	2.76(70)	3.94(100)
E	2.05(52)	2.20(56)	2.40(61)
F	1.30(33)	1.28(32.5)	1.18(30)
G	—	3.74(95)	4.65(118)
H	—	.28(7)	.39(10)
I	—	.39(10)	.39(10)

NOTES:

1. DCA triple outputs — no adjustment
DCB/DCC triple outputs — only 5VDC output adjustable

Specifications subject to change

