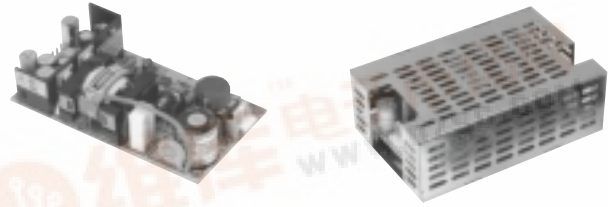


International Power Sources, Inc.

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

DC/DC Converters



PD40 Series: 40 Watt Wide Input Range

FEATURES

- Three wide input voltage ranges:
10-30 VDC; 20-60 VDC; 30-90 VDC
- Low Cost
- Small size, light weight
- 100% burn-in
- Overvoltage protection
- Overcurrent protection

DESCRIPTION

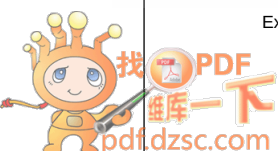
The PD40 Series of DC/DC converters provides up to 40 watts of continuous output power. Available in three standard input ranges of 10-30 VDC, 20-60 VDC and 30-90 VDC, they are ideal for a variety of applications in telecommunications, process control, portable equipment and vehicle mounted instrumentation. All units are available in compact "open frame" or "enclosed" mechanical formats.

OUTPUT VOLTAGE/CURRENT RATINGS CHART

Model	Output #1				Output #2				Output #3				Maximum Output Power ²
	Vnom	Imin	Imax	Tol.	Vnom	Imin	Imax	Tol.	Vnom	Imin	Imax	Tol.	
PD40-10	5V	0.0A	8A	1%									40W
PD40-12	12V	0.0A	3.5A	1%									40W
PD40-13	15V	0.0A	3.0A	1%									40W
PD40-14	24V	0.0A	2.0A	1%									40W
PD40-25	+5V	0.5A	3.0A	3%	+24V	0.1A	1.0A	5%					40W
PD40-30	+5V	0.5A	3.0A	3%	+12V	0.2A	2.0A	5%	-5V	0A	0.8A	5%	40W
PD40-31	+5V	0.5A	3.0A	3%	+12V	0.2A	2.0A	5%	-12V	0A	0.8A	5%	40W
PD40-32	+5V	0.5A	3.0A	3%	+15V	0.2A	2.0A	5%	-15V	0A	0.8A	5%	40W

NOTE: 1) All multi-output units may be operated at no load without damage. At no load, output tolerance increases to 10%.
2) Maximum output power for 10-30 VDC input range is 70% of that shown above.
3) Suffix codes for mechanical format and input range as follows:
Input voltage range L: 10-30 VDC² Mechanical format: A: PCB only
M: 20-60 VDC C: Enclosed
H: 30-90 VDC

Example: PD40-31MC (20-60 VDC input range/Enclosed).



ELECTRICAL SPECIFICATIONS

GENERAL SPECIFICATIONS

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

Efficiency65% minimum
 Hold-up time10 msec
 Line regulation±0.5% maximum
 Isolation voltage1000 VDC from input
to output
 Operating temperature0 to 70°C*
 Storage temperature-40 to 85°C
 MTBF100,000 hours
 Weight300 grams - PCB
500 grams - enclosed

* Derate linearly from 100% load at 50°C to 50% load at 70°C.

INPUT SPECIFICATIONS

Input Voltage10 to 30 VDC (PD40 "L" series)
20 to 60 VDC (PD40 "M" series)
30 to 90 VDC (PD40 "H" series)
 Input currents2.5A (rms) for 24 VDC
1.3A (rms) for 48 VDC
0.84A (rms) for 72 VDC

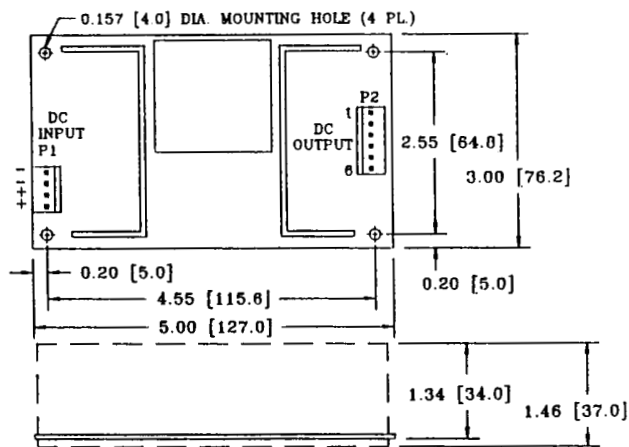
OUTPUT SPECIFICATIONS

Output voltage/currentSee rating chart
 Ripple1% peak to peak maximum
 Overvoltage protectionprovided on output #1 only, set
at 112-132% of its nominal
output voltage
 Overcurrent protectionAll outputs protected in short
circuit conditions
 Temperature coefficientall outputs ±0.04%/°C maximum

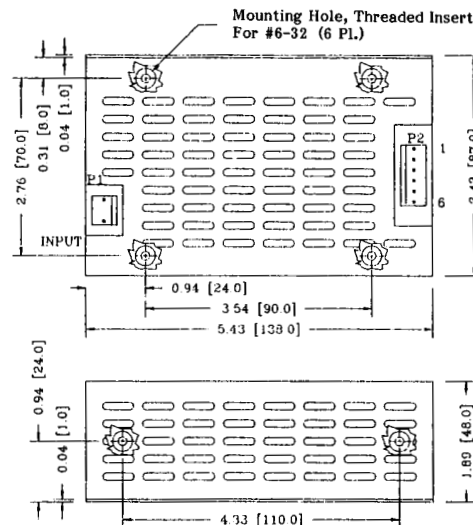
Specifications subject to change.

MECHANICAL SPECIFICATIONS

Dimensions shown in inches (mm)/Tolerance ± 0.02 (0.5) maximum
 Input connector mates with Molex housing 09-50-3041 and Molex 2878 series crimp terminal
 Output connector mates with Molex housing 09-50-3061 and Molex 2878 series crimp terminal



OPEN PCB "A"



ENCLOSED "C"

PIN CHART

MODEL	PIN	1	2	3	4	5	6
PD40-10 PD40-13	PD40-12 PD40-14	OUTPUT #1	OUTPUT #1	OUTPUT #1	RETURN	RETURN	RETURN
PD40-25		OUTPUT #2	OUTPUT #1	OUTPUT #1	COMMON RETURN	COMMON RETURN	N.C.
PD40-30 PD40-32	PD40-31	OUTPUT #2	OUTPUT #1	OUTPUT #1	COMMON RETURN	COMMON RETURN	OUTPUT #3



Your Source of Power ...

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