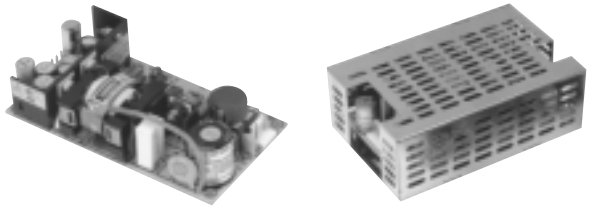
DC/DC Converters

XPiQ inc.
Intelligent Design Quality Product

International Power Sources, Inc.

40 Watts
PD40 Series



- Low Cost
- 100% Burn-In
- Small Size, Light Weight
- Three Wide Input Voltage Ranges
  10-30 VDC, 20-60 VDC, 30-90 VDC
- Overvoltage Protection
- Overcurrent Protection

Specification

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

Input

Input Voltage	•	*10 to 30 VDC (PD40 "L" series)* *20 to 60 VDC (PD40 "M" series)* *30 to 90 VDC (PD40 "H" series)*
Input Current	•	2.5A (rms) for 24 VDC 1.3A (rms) for 48 VDC 0.84A (rms) for 72 VDC

Output

Output Voltage/ Current	•	*See rating chart*
Ripple	•	*1% peak to peak maximum*
Overvoltage Protection	•	*Provided on output #1 only, set at 112-132% of its nominal output voltage*
Overcurrent Protection:	•	*All outputs protected in short circuit conditions*
Temperature Coefficient:	•	*All outputs ±0.04%/°C maximum*

General

Efficiency	•	*65% minimum*
Hold-up time	•	*10 msec*
Line Regulation	•	*±0.5% max*
Isolation Voltage	•	*1000 VDC from input to output*

Environmental

Operating Temperature	•	*0°C to +70°C**
Storage Temperature	•	*-40°C to +85°C*
MTBF	•	*100,000 hours*
Weight	•	*300 grams - PCB* *500 grams - enclosed*

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

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OUTPUT VOLTAGE & CURRENT RATINGS — PD 40

	Output #1				Output #2				Output #3				Maximum Output
Model	Vnom	Imin	Imax	Tol.	Vnom	Imin	Imax	Tol.	Vnom	Imin	Imax	Tol.	Power[2]
PD40-10	5V	0.0A	8.0A	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

Notes

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 VDC[2] | M: .20-60 VDC | H: .30-90 VDC

Mechanical format: A: PCB only | C: Enclosed

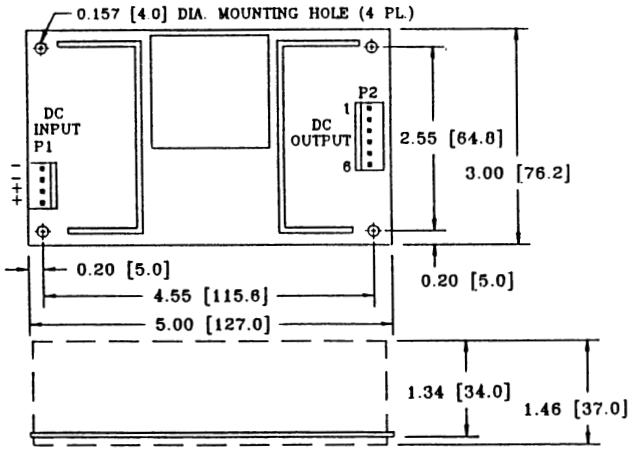
Example: PD40-31MC (20-60 VDC input range/Enclosed).

Pin Chart

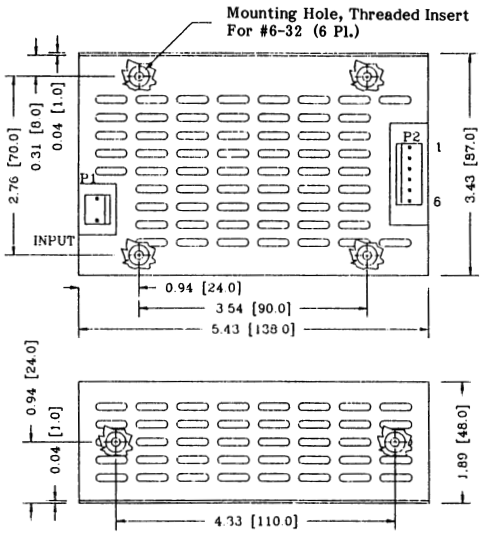
MODEL	PIN	1	2	3	4	5	6
PD40-10 PD40-13	PD40-12 PD40-14	OUTPUT #1	OUTPUT #1	OUTPUT #1	RETURN	RETURN	RETURN
PD40-25		OUTPUT #2	OUTPUT #1	OUTPUT #1	COMMON RETURN	COMMON RETURN	N.C.
PD40-30 PD40-32	PD40-31	OUTPUT #2	OUTPUT #1	OUTPUT #1	COMMON RETURN	COMMON RETURN	OUTPUT #3

Mechanical Details

OPEN PCB "A"



ENCLOSED "C"



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

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