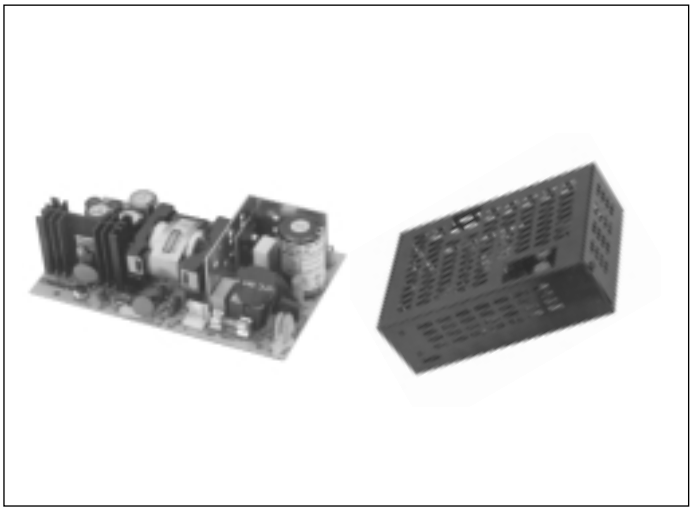
XPiQ inc.
Intelligent Design Quality Product

International Power Sources, Inc.

65 Watts
PD65 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 (PD65 "L" series)* *20 to 60 VDC (PD65 "M" series)* *30 to 90 VDC (PD65 "H" series)*
Input Current	4.1A (rms) for 24 VDC 2.1A (rms) for 48 VDC 1.5A (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% - 80%*
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	*380 grams - PCB* *640 grams - enclosed*

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

PH: 508 429.9883
FAX: 800 226.2100
Email: sales@xp-iq.com
Holliston, MA 01746 USA

OUTPUT VOLTAGE & CURRENT RATINGS — PD 65

Model	Output #1				Output #2				Output #3				Output #4				Maximum Output Power[2]
	Vnom	Imin	Imax	Tol.	Vnom	Imin	Imax	Tol.	Vnom	Imin	Imax	Tol.	Vnom	Imin	Imax	Tol.	
PD65-10	5V	0.0A	10A	1%													65W
PD65-12	12V	0.0A	5.5A	1%													65W
PD65-13	15V	0.0A	4.5A	1%													65W
PD65-14	24V	0.0A	3.0A	1%													65W
PD65-25	+5V	1.0A	6.0A	3%	+24V	0.3A	2.0A	5%									65W
PD65-30	+5V	1.0A	6.0A	3%	+12V	0.5A	3.0A	5%	+24V	0.1A	0.5A	10%					65W
PD65-31	+5V	1.0A	6.0A	3%	+12V	0.5A	3.0A	5%	+12V	0.1A	0.5A	10%					65W
PD65-32	+5V	1.0A	6.0A	3%	+15V	0.4A	3.0A	5%	+12V	0.1A	0.5A	10%					65W
PD65-40	+5V	1.0A	6.0A	3%	+12V	0.5A	3.0A	5%	-12V	0.1A	0.5A	10%	-5V	0.1A	0.5A	10%	65W

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

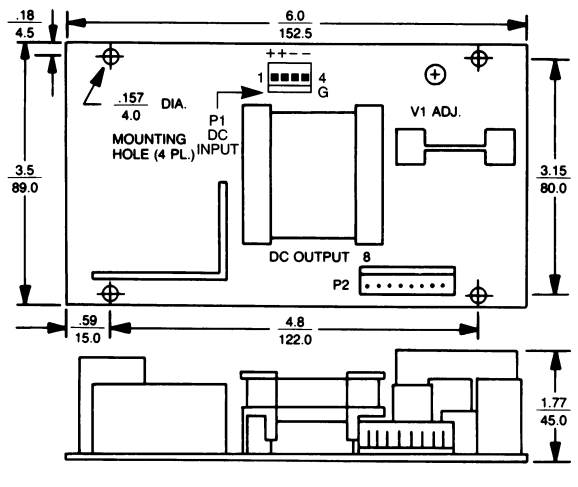
- Example: PD65-31MC (20-60 VDC input range/Enclosed).

Pin Chart

MODEL	PIN	1	2	3	4	5	6	7	8
PD65-10 PD65-13	PD65-12 PD65-14	OUTPUT #1	OUTPUT #1	OUTPUT #1	OUTPUT #1	RETURN	RETURN	RETURN	RETURN
PD65-25		OUTPUT #1	OUTPUT #1	COMMON RETURN	COMMON RETURN	OUTPUT #2	OUTPUT #2	N.C.	N.C.
PD65-30 PD65-32	PD65-31	OUTPUT #1	OUTPUT #1	COMMON RETURN	COMMON RETURN	OUTPUT #2	OUTPUT #2	OUTPUT #3	N.C.
PD65-40		OUTPUT #1	OUTPUT #1	COMMON RETURN	COMMON RETURN	OUTPUT #2	OUTPUT #2	OUTPUT #3	OUTPUT #4

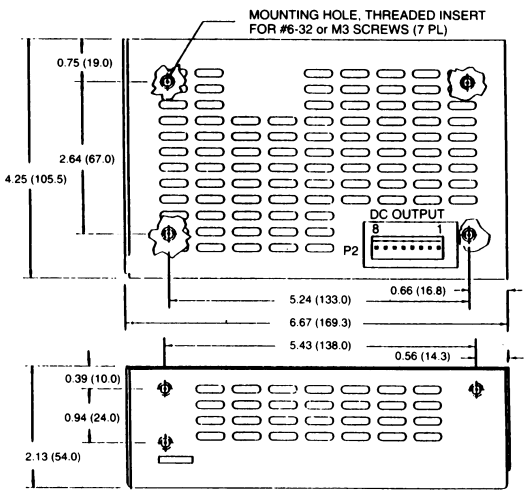
Mechanical Details

OPEN PCB "A"



OPEN PCB "A"

ENCLOSED "C"



ENCLOSED "C"

Dimensions shown in inches (mm)/Tolerence ± 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 09-50-3081 and Molex 2878 series crimp terminal

PH: 508 429.9883
FAX: 800 226.2100
Email: sales@xp-iq.com
Holliston, MA 01746 USA