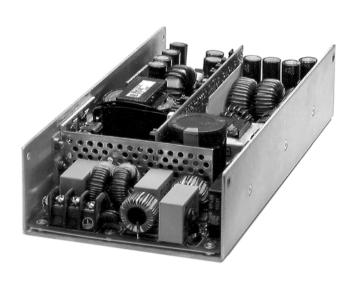


Product Data Sheet

400 WATT AC/DC Power Supply

PX400/402



DESCRIPTION

The PX400 is a compact 400 watt Power Factor Corrected, multiple output power supply. All outputs are fully isolated and regulated. Active current sharing circuitry, together with control functions and alarm options, simplifies N+1 and redundant applications. Fan and disk drive applications are handled by the peak current ratings of the auxiliary outputs.

FEATURES

- Active Power Factor Correction
- High Surge Current Auxiliary Outputs
- FCC/VDE Class B EMI Filter
- Fully Isolated and Regulated Outputs
- Compact Size: 10" x 4.85" x 2.19"
- One, Two, Three and Four Output Models
- Optional Cover With Fan



Internet: http://www.cdpowerelectronics.com

Input Specifications

Parameter	Conditions	Min		Max	Units
Operating Range	47-63 Hz	90		264	Vac
Inrush Current Limiting					
	120 Vac, cold start			30	Арк
	240 Vac, cold start			60	Арк
Efficiency	Nominal line and full load		75		%
Power Factor Correction (PFC)				0.99	
Meets					

Remote Sense

Remote Sense is provided on Output #1 and will compensate for 1.0V of line drop. Remote Sense leads are protected against open, short and reversal.

Remote On/Off

The power supply is turned on with a TTL logic '1' (or open) signal and turned off by a switch closure or TTL logic '0' referenced to (-) sense terminal. Consult the factory for other options.

Over Voltage Protection

Output #1: 6.5V, ±0.5 VDC

The power supply will latch off until AC power is cycled.

Over Current Protection

Individual current limit on all outputs. Automatic recovery upon fault removal.

Transient Response

The peak output voltage excursion will not exceed 2% and will recover within 1% in 200 µsec for a 25% step load.

Output Isolation

All outputs are fully isolated.

Reverse Voltage Protection

All outputs are protected to rated load current.

Power Fail Signal

Upon AC input voltage removal, the power fail signal drops to logic zero at least 10msec before loss of DC output. Upon AC input turn-on, signal remains low until outputs are in regulation. Consult the factory for other options.

N+1 Load Share (PX402)

Output #1 has active load sharing circuitry. Units will load share within 1% of the Maximum Rated Load.

OverTemperature Protection

Thermal switch turns off power supply if overheating occurs and automatically restarts.

Safety

UL Recognized: UL File Number E14675 (1950 & 1012) CSA Certified: CSA File Number LR 9070-154C (C22.2 No9. 234-M90, Level 6)

TUV License Number: R9576029 (EN60950) (IEC950)

Cooling

The unit is designed to operate with 40 CFM of airflow.

Page 2 PX400/402 4/98 REV B

Output Voltages and Maximum Rated Loads

	OUTP	UT #1	OUTI	PUT#2	OUTPUT #3	OUTPUT #4
MODEL NUMBER	V out	I MAX	VNOM	MAX/IPK	VNOM MAX/IPK	V _{NOM} I _{MAX}
PX400/402-U3A	±5V	70A	± 12V	15A/17A	± 12V 15A/17A	
PX400/402-U3B	±5V	70A	± 15V	15A/17A	± 15V 15A/17A	
PX400/402-U4C	±5V	70A	± 12V	12A/14A	± 12V 12A/14A	± 5V 3.0A
PX400/402-U4D	±5V	70A	± 12V	12A/14A	± 12V 12A/14A	± 24V 2.0A
PX400/402-U4E	±5V	70A	± 12V	12A/14A	± 12V 12A/14A	± 12V 3.0A
PX400/402-U4F	±5V	70A	± 15V	12A/14A	± 15V 12A/14A	± 5V 3.0A
PX400/402-U4G	±5V	70A	± 15V	12A/14A	± 15V 12A/14A	± 24V 2.0A
PX400/402-U4H	±5V	70A	± 12V	12A/14A	± 12V 12A/14A	± 5.2V 10.0A
PX400/402-U4I	±5V	70A	± 15V	12A/14A	± 15V 12A/14A	± 5.2V 10.0A
PX400/402-U4J	±5V	20A	± 17V	3A	± 17V 3A	± 24V 10.0A
PX400/402-U4K	±5V	25A	± 12V	10A	± 12V 10A	± 12V 4.0A
PX400/402-U4L	±5V	30A	± 12V	10A	± 12V 10A	± 5.2V 3.0A
PX400/402-U4M	±5V	30A	± 15V	12A	± 15V 12A	± 5.2V 10.0A
PX400/402-U4N	±5V	70A	± 12V	12A	± 12V 12A	± 3.3V 10.0A
PX400/402-U4P	±5V	30A	± 12V	10A	± 12V 12A	± 24V 3.0A
PX400/402-U4R	±5V	20A	± 15V	4A	± 15V 4A	± 24V 10.0A
PX400/402-U4S	±5V	20A	± 12V	8A	± 12V 3A	± 24V 10.0A

Note: Peak current ratings are for 10sec maximum. Total power not to exceed 400 watts.

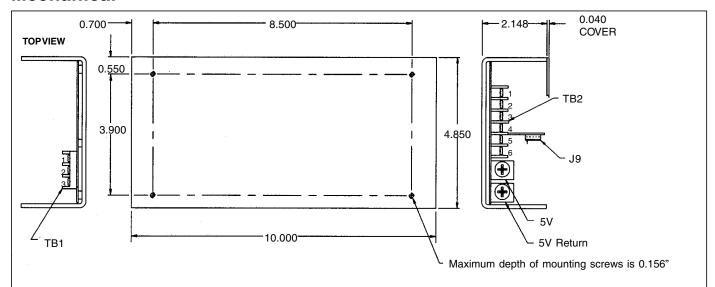
Output Specifications

Parameter	Limits		
Regulation			
Line	± 0.1%		
Load	±0.5%		
Cross	±0.1%		
Minimum Load			
Output #1	2.5A		
Hold-Up Time	30mSec at Full Load		

Parameter	Conditions	Min	Тур	Max	Units
Voltage Adustment Range			±5		%
PARD	20 MHz bandwidth		0.5		% P-P
Temperature					
Operating		0		40	°C
Storage		-20		+85	°C
Temperature Coefficient (Tc)	After half hour warm-up		± 0.02		% /°C

PX400/402 4/98 REV B Page 3

Mechanical



NOTES: All measurements are in inches FAN MOUNTED ON COVER ADDS 1.30".

COOLING: The PX400/402 is designed to operate with 40 CFM airflow.

SHOCK AND VIBRATION: The PX400/402 family meets the requirements of MIL STD-810D. (Vibration-Method 514.3 Procedure I; Shock-Method 516.3

Procedure I.)

WEIGHT: Approximately 4 lbs.

Pin Specifications

Terminal Block 1		Termina	erminal Block 2		
POS	FUNCTION	POS	FUNCTION		
1	Ground	1	-V4		
2	AC Neutral	2	+V4		
3	AC Line	3	-V3		
		4	+V3		
		5	-V2		
		6	+V2		

Connector Specifications

J9 Connector		J9 Connector		
PIN	FUNCTION		Molex No.	
1	- Sense	Connector	22-28-1050	
2	+ Sense			
3	Current Share			
4	Remote Inhibit			
5	Power Fail			

Model PX402 features Active Current Sharing

Standard Options are shown, consult factory for other available options.

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Page 4 PX400/402 4/98 REV B