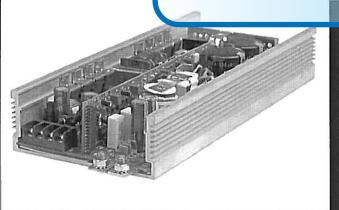


# 750 WATT AC/DC Power Supply

# OBSOLETE PRODUCT

Contact Factory for Replacement Model



The KY750 is a low profile, 75 watt, power factor corrected, triple output power supply utilizing a half-bridge topology operating at 250kHz. The compact design yields a power density in excess of 6 watts per cubic inch. Universal input and power factor correction to EN61000-3-2 make the KX750 an excellent choice for product applications with woldwide markets. In addition, the KX750 carries UL, CSA and TUV approvals, and complies with FCC and VDE Class B EMI requirements. Optional active current sharing on all three outputs simplifies N+1 redundant applications. Remote sensing capability is standard on all outputs and will compensate for up to 0.7V line drop. All outputs are fully isolated, regulated, and current limited

#### **FEATURES**

- Active Power Factor Correction to EN61000-3-2
- 3.3V Main Output
- FCC/VDE Class B EMI Filter
- Active Current Sharing Optional
- Fully Isolated and Regulated Outputs
- Compact Size: 12" x 5" x 2"
- 75% Efficiency Typical
- ≥ 6 Watts Per Cubic Inch
- Optional Fan Mounted On Cover
- Optional Current Sharing On All Outputs



Internet: http://www.cdpowerelectronics.com

#### Input Specifications

Parameter	Conditions	Min	Тур	Max	Units	
Operating Range	47-63Hz	90		264	VAC	
Inrush Current	120Vac, cold start			40	Арк	
	240Vac, cold start			80	Арк	
Efficiency	Nominal line and full load		75		%	
Power Factor Correction (PFC)	Meets EN61000-3-2		0.99			

#### **Remote Sense**

Remote Sense is provided on all outputs and will compensate for 0.7V 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: 6.25V, ±0.8 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.

#### **Reverse Voltage Protection**

All outputs are protected to rated load.

#### **Transient Response**

The peak output voltage excursion on the main output will not exceed 2% and will recover within 1% in 200  $\mu$ Sec for a 25% load step change.

#### **Output Isolation**

All outputs are fully isolated.

#### **Power Fail Signal**

Upon AC input voltage removal, the power fail signal drops to logic zero at least 5msec before loss of DC output. Upon AC input turn-on, signal remains low until outputs are in regulation referenced to (-) sense terminal. Consult the factory for other options.

#### **DC Power Good Signal**

Upon a  $\pm 10\%$  loss of regulation on any output, the DC Good signal drops to a logic zero referenced to (-) sense terminal. Consult the factory for other options.

#### **Over Temperature Protection**

Internal thermal switch turns off power supply if overheating occurs and automatically restarts when temperature drops below threshold.

#### Safety

UL Recognized: UL File Number 14675 (1950 & 1012) CSA Certified: CSA File Number LR9070-154C

(C22.2 No. 234-M90, Level 6)

TUV License Number: R9576032 (EN60950) (IEC950)

#### Cooling

The unit is designed to operate with 30 CFM of airflow.

## **Output Voltages and Maximum Rated Loads**

	OUTP	UT #1	OUTP	UT #2	OUTPUT #3		
MODEL NUMBER	Vour	IMAX	Vnom	IMAX	VNOM	IMAX	
KX750-F3A	± 5V	100A	± 12V	20A	± 12V	20A	
KX750-F2B	± 5V	100A	± 12V	20A			
KX750-F1C	± 5V	100A					

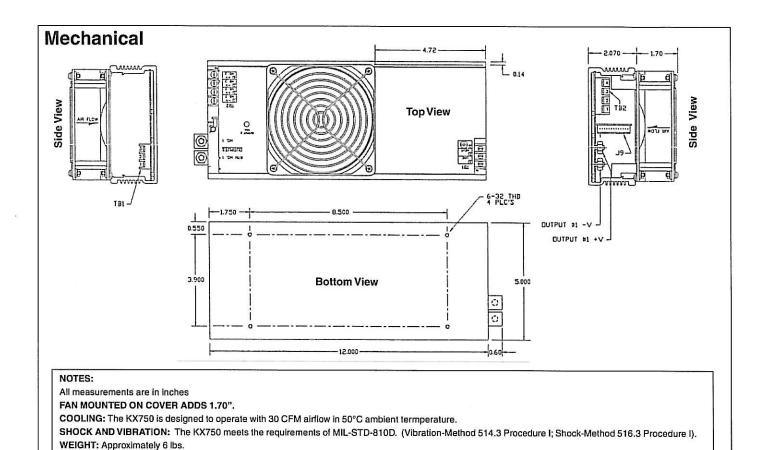
NOTE: Total power not to exceed 750 watts.

## **Output Specifications**

Parameter	Limits		
Regulation	Main Output	Outputs #2 - 3	
Line	<u>+</u> 0.1%	<u>+</u> 0.2%	
Load	±0.2%	<u>+</u> 0.4%	
Cross	±0.2%	<u>+</u> 0.2%	
Minimum Load		11852 1.300	
Output #1	5.0A		
Outputs #2 & #3	1.0A		
Hold-Up Time	>20mSec	at Full Load	

Parameter	Conditions	Min	Тур	Max	Units
Voltage Adustment Range	Nominal line on all outputs		±5		%
PARD	20 MHz bandwidth			1	% P-P
Temperature					
Operating		0		50	°C
	Derates 20W/°C	50		70	°C
Storage		-20		+85	°C
Humidity Range	Non-condensing	0		95	%
Temperature Coefficient (Tc)  All outputs after half hour warm				± 0.02	%/°C

KX750 4/99 REV B



#### **Pin Specifications**

Terminal Block 1		Terminal Block 2		
POS	FUNCTION	POS	FUNCTION	
1	AC Line	1	-V2	
2	AC Neutral	2	+V2	
3	Ground	3	-V3	
		4	+V3	

#### **Connector Specifications**

J9 Connector		
IVI	olex No. 22-081140	
PIN	FUNCTION	
1	- Remote Sense #2	
2	+ Remote Sense #2	
3	Current Sense Bus #2	
4	- Remote Sense #3	
5	+ Remote Sense #3	
6	Curent Sense Bus #3	
7	+ Remote Sense #1	
8	- Remote Sense #1	
9	Sync I/O	
10	AC Power Fail Alarm	
11	Status/Control Return	
12	DC Power Good	
13	Remote Inhibit	
14	Current Sense Bus #1	

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

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