

130 WATT SWITCHING POWER SUPPLIES

FEATURES

- Compact size and light weight
- High efficiency
- UL, CSA, VDE approved
- Meets FCC and VDE EMI (Class B)
- 100% thermal cycle and burn-in
- Vacuum impregnated transformers
- Overvoltage protection
- Short circuit protection
- Dual input voltage (115/230 VAC)
- Small size
- "L" bracket and enclosed versions
- Applicable for minicomputers, stand-alone terminals, and other mixed logic applications.

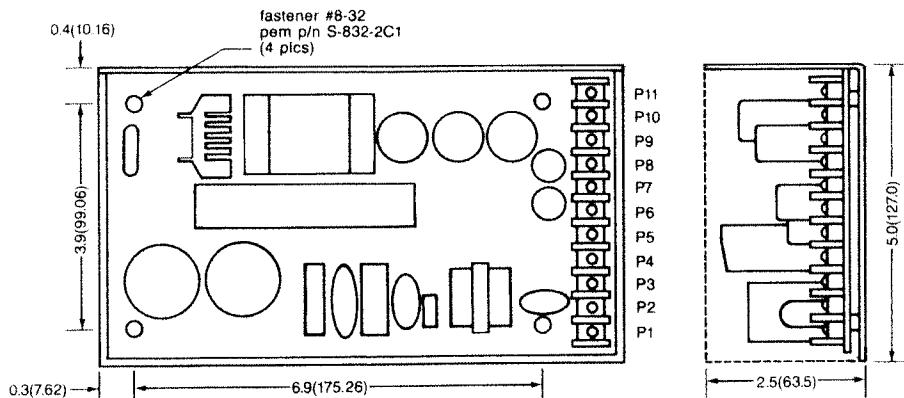
PIN ASSIGNMENT

(AC Input)

P1 Live
P2 Neutral
P3 Gnd

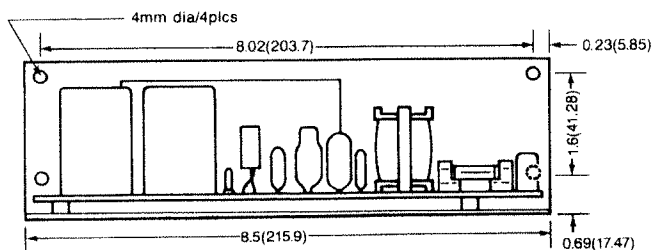
(DC Output)

P4 - 12V DC (-X400)
+ 12V DC @ 2.0A (-X401)
+ 24V DC (-X402)
P5 + 12V DC @ 5.0A
- 5V DC (-X400)
P6 - 12V DC
+ 12V DC (-X400)
P7, P8, P9 Common
P10, P11 + 5V DC



OUTPUTS

MODEL	PKG	LOAD					
		+ 5V	- 5V	+ 12V	- 12V	+ 24V	+ 12V
SA130-2400	L BRKT	3-15A	0-0.7A	1-5.0A	0.1-0.7A		
SA130-3400	BOX						
SA130-2401	L BRKT	3-15A		1-5.0A	0.1-1A		0.5-2A
SA130-3401	BOX						
SA130-2402	L BRKT	3-15A		1-4.0A	0.2-1A	0.75-3A	
SA130-3402	BOX						



GENERAL CHARACTERISTICS

Tolerance:	+ 5V \pm 3%
	Pos Outputs \pm 5%
	Neg Outputs \pm 10%
Output Ripple:	1% p-p max
Efficiency:	70% minimum at full load
Overvoltage Protection:	+ 5V output trip voltage: 5.8 to 7.0V
Overcurrent Protection:	All outputs short circuit protected
Temperature Regulation:	0.02% per °C
Hold-up time (90 VAC):	> 16mSec at Full load
Isolation A/C input to output:	3.5KVDC min
MTBF:	Greater than 50K hrs. at full load at 25°C ambient temperature
Operating Temperature:	5°C to 50°C
Storage Temperature:	-20 C to +85 C
EMI Requirements:	Meets conduction limits of: FCC Class "B" rules and VDE 0871 Class "B" rules
Temperature Coefficient:	0.03%/deg C
Start-up surge capability:	+ 12V-7.0A for 10 sec + 24V-5.0A for 10 sec

NOTES:

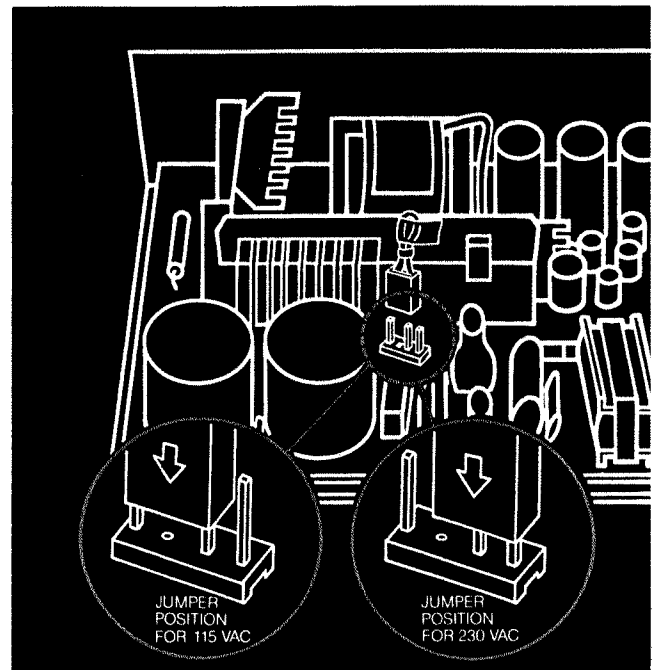
1. The output tolerance refers to the nominal voltage and includes line regulation, load regulation, temperature drift, and set-up tolerance.
2. The specified ripple is at the rated line voltage and load range.
3. The maximum continuous output power is as follows:
 - 100 Watts with convection cooling
 - 130 Watts with forced air cooling (min 15 cfm)
4. Ripple is defined as composite 100/120 Hz ripple due to the line plus a high frequency ripple due to the power oscillator from 1 Hz to 10 MHz. Common mode noise which may be observed due to oscilloscope connections will be ignored. Also, the specified ripple is over the full rated input range and load range. Measurements taken directly at the output connector.

INPUT CHARACTERISTICS

AC Input voltage: 85 to 135 VAC or
170 to 270 VAC
(Selectable by jumper on PCB)

AC Input Frequency: 47 to 400 Hz

AC Input Current: 2.5A (rms) for 115 VAC
1.5A (rms) for 230 VAC

**MATING CONNECTORS: (MOLEX INC.)**

AC Input (Housing): 09-50-3051
DC Output (Housing): 09-50-3131
(or equivalent)
Pins: 2478 or 2578 Series

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