

## S53P SERIES

### 50 WATT MULTIPLE OUTPUT SWITCHING POWER SUPPLIES

#### INPUT SPECIFICATIONS

Input voltage	90-130 or 180-260 VAC selectable by jumper on PCB
Input frequency	47 to 440 Hz
Input current	1.40A (rms) for 115 VAC 0.80A (rms) for 230 VAC

#### OUTPUT SPECIFICATIONS

Output voltage	See output rating chart
Output current	See output rating chart
Output power range	10 to 50 watts
Ripple and noise	1% P-P max on all outputs
Overvoltage protection	On master output of all models or standard on single output models
Overcurrent protection	Short circuit protection on all outputs
Temperature coefficient	±0.04%/°C max on all outputs

#### GENERAL SPECIFICATIONS

Efficiency	65% min at full load
Hold-up time	24 msec min
Line regulation	±0.5% max at full load
Inrush current	30 amps @115 VAC or 60 amps @230 VAC at 25°C cold start
Withstand voltage	3000 VAC, input to output 1500 VAC, input to GND
Insulation resistance	10M ohm min, output to GND
Operating temperature	0°C to +50°C
Storage temperature	-20°C to +85°C
MTBF	120,000 hours min per MIL-HDBK-217E
EMI requirements	Meets conduction limits of a) FCC 20780 Level B b) VDE 0871 Level A
Safety requirements	Meets or exceeds a) UL 1950 b) CSA C22.2 No.234-M90 c) EN 60950/IEC 950
Construction	Enclosed in metal box
Dimension (L x W x H)	5.79 x 3.15 x 1.87 inches

#### FEATURES

- Fully enclosed construction only
- Built-in EMI filter, high efficiency
- 100% burn-in
- 115/230 VAC dual input voltage
- Input surge current protection
- Overvoltage protection
- Overcurrent protection
- UL/CSA/TUV certified

#### DESCRIPTION

The fully enclosed S53p AC/DC switching power supply series exhibits significant stability while delivering 50 watts of continuous output power. Reliability and high performance level make this series an ideal choice for today's CRT, small microprocessor based system, and many other mixed logic applications. Models S53P23A is equipped with +5V at 2A and an enhanced +12V output with 3.5A capability for power requirements of most hard disk drives and tape back-up systems in the current market. All model are certified by UL/CSA/TUV safety standards.



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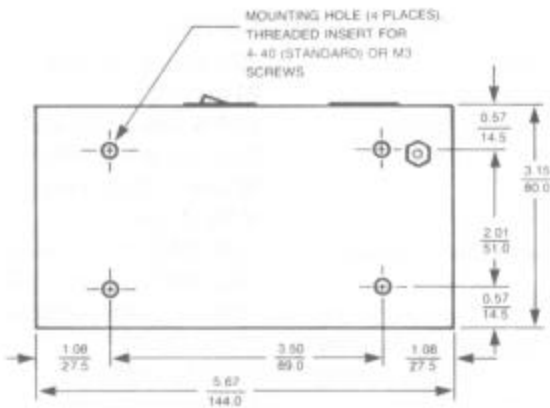
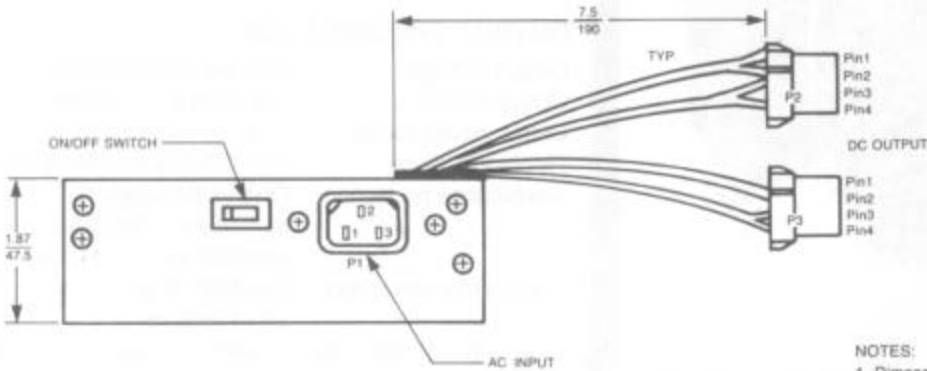
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R9172044

## OUTPUT VOLTAGE/CURRENT RATING CHART

Model No.	Output #1 (Master Output)				Output #2 (Auxiliary Output)				Output #3 (Auxiliary Output)				Max. Output Power
	Vnom	Imin	I <sub>max</sub>	Tol.	Vnom	Imin	I <sub>max</sub>	Tol.	Vnom	Imin	I <sub>max</sub>	Tol.	
S53P10A	+5V	0A	10A	1%									50W
S53P12A	+12V	0A	4.2A	1%									50W
S53P13A	+15V	0A	3.5A	1%									50W
S53P14A	+24V	0A	2.2A	1%									50W
S53P23A	+5V	0.5A	2A	3%	+12V	0.5A	3.5A	5%					50W
S53P30A	+5V	1A	6A	3%	+12V	0.4A	2A	5%	-5V	0.1A	0.5A	10%	50W
S53P31A	+5V	1A	6A	3%	+12V	0.4A	2A	5%	-12V	0.1A	0.5A	10%	50W
S53P32A	+5V	1A	6A	3%	+15V	0.4A	2A	5%	-15V	0.1A	0.5A	10%	50W

## MECHANICAL SPECIFICATIONS



### NOTES:

1. Dimension shown in  $\frac{\text{inch}}{\text{mm}}$ .
2. Tolerance  $\frac{0.02}{0.5}$  maximum.
3. Output connectors mate with AMP P/N 1-480426-0 pin housing assembly or P/N 1-350211-1 pin header assembly.
4. Weight: 21.9 oz (620 grams) approx.

## PIN CHART

Model No.	Connector No. P1			P2				P3			
	Pin 1	Pin 2	Pin 3	Pin 1	Pin 2	Pin 3	Pin 4	Pin 1	Pin 2	Pin 3	Pin 4
S53P10A	AC Live	Ground	AC Neutral	Return	Return	+5V	+5V	N/A	N/A	N/A	N/A
S53P12A	AC Live	Ground	AC Neutral	Return	Return	+12V	+12V	N/A	N/A	N/A	N/A
S53P13A	AC Live	Ground	AC Neutral	Return	Return	+15V	+15V	N/A	N/A	N/A	N/A
S53P14A	AC Live	Ground	AC Neutral	Return	Return	+24V	+24V	N/A	N/A	N/A	N/A
S53P23A	AC Live	Ground	AC Neutral	+12V	Common	Common	+5V	+12V	Common	Common	+5V
S53P30A	AC Live	Ground	AC Neutral	+12V	-5V	Common	+5V	+12V	N.C.	Common	+5V
S53P31A	AC Live	Ground	AC Neutral	+12V	-12V	Common	+5V	+12V	N.C.	Common	+5V
S53P32A	AC Live	Ground	AC Neutral	+15V	-15V	Common	+5V	+15V	N.C.	Common	+5V

\* Data are subject to change without notice.

S53P-9609E/2K