

Bothhandusa.com

SP9919B

MODEL NO.: SP9919B

CUSTOMER P/N:

DESCRIPTION: SWITCHING POWER SUPPLY

ISSUED DATE: August 4, 1999
REVISION NO.: ORIGINAL

TABLE OF CONTENTS

- 1.0 INPUT SPECIFICATIONS
- 2.0 OUTPUT SPECIFICATIONS
- 3.0 GENERAL FEATURES
- 4.0 ENVIRONMENT SPECIFICATIONS
- 5.0 INTERNATIONAL STANDARDS
- 6.0 RELIABILITY REQUIREMETNS
- 7.0 MECHANICAL SPECIFICATION

00	Initial Released	04-08-1999
REV	DESCRIPTION	DATE

APP. BY	CHK. BY	PRE. BY
Bill Penq	Sandy	Sandy
08-04-1999	08-04-1999	08-04-1999

1.0 INPUT SPECIFICATIONS

1.1 AC VOLTAGE:

THE RANGE OF INPUT VOLTAGE IS FROM 90Vac TO 264Vac

1.2 FREQUENCY:

THE RANGE OF INPUT FREQUENCY IS FROM 47Hz TO 63Hz

1.3 AC CURRENT:

THE MAXIMUN INPUT CURRENT SHALL BE LESS THAN 1A

1.4 INRUSH CURRENT:

THE INRUSH CURRENT WILL NOT EXCEED 30A AT 115Vac INPUT OR 60A AT 230Vac INPUT, COLD START, and 25

2.0 OUTPUT SPECIFICATIONS

2.1 OUTPUT REGULATION, RIPPLE AND NOISE, CURRENT:

OUTPUT	VOLTAGE	OUTPUT	RIPPLE	LOA	AD
VOLTAGE	REGULATION	TOLERANCE	&NOISE	MIN	MAX
+5Vdc	+/-5%	$+4.75V \sim +5.25V$	50mVp-p	0.50A	3.5A
+12Vdc	+/-7%	+11.16V~+12.84V	240mVp-p	0.00A	0.5A
-12Vdc	+/-10%	-10.80V~ - 13.20V	240mVp-p	0.00A	0.1A

2.2 RIPPLE & NOISE:

THE PEAK TO PEAK RIPPLE AND NOISE FOR EACH OUTPUT IS LESS THAN SPECIFICATION AT RATED LOAD.MEASURING IS DONE BY 20MHz BAND WIDTH LIMITED OSCILLOSCOPE AND TERMINATED EACH OUTPUT WITH A 0.1uF AND A 10uF CAPACITORS

2.3 RISE TIME:

THE +5V OUTPUT RISE TIME SHALL BE LESS THAN 100ms

2.4 OVERSHOOT:

NO OUTPUT VOLTAGE SHALL EXCEED 110% OF ITS NOMINAL VALUE AT TURN ON OR TURN OFF

3.0 GENERAL FEATURES

3.1 EFFICIENCY:

THE EFFICIENCY IS HIGHER THEN 65% WHILE MEASURING AT NOMINAL LINE AND RATED LOAD

3.2 SHORT-CIRCUIT PROTECTION:

THE POWER SUPPLY SHALL BE PROTECTED SUCH THAT A SHORT FROM ANY OUTPUT TO RETURN SHALL NOT RESULT IN A FIRE HAZARD, SHOCK HAZARD. WHEN THE SHORT CONDITION IS REMOVED, THE POWER SUPPLY MUST EITHER RECOVER AUTOMATICALLY OR RESET BY RECYCLLING THE INPUT VOLTAGE AND OPERATE NORMALL

3.3 OVER-VOLTAGE PROTECTION:

THE POWER SUPPLY SHALL BE SHUT DOWN, IF +5V OUTPUT VOLTAGE EXCEEDS THE VALUE LISTED BELOW. A CROWBAR ON THE +5V OUTPUT IS REQUIRED TO SHORT THE OUTPUT TO PREVENT DAMAGE TO THE EXTERNAL CIRCUITS O.V.P. TRIP POINT FROM 5.6V TO 6.7V

4.0 ENVIRONMENT SPECIFICATIONS

4.1 OPERATING:

TEMPERATURE 0 TO 50

RELATIVE HUMIDITY 20% TO 80% RH

4.2 STORAGE:

TEMPERATURE -20 TO 85

RELATIVE HUMIDITY 10% TO 90% RH

5.0 INTERNATIONAL STANDARDS

5.1 SAFETY STANDARDS:

DESIGNED TO MEET THE FOLLOWING STANDARDS:

UL 1950

CSA 22.2 NO.234

VDE EN 60950

5.2 EMI STANDARDS:

DESIGNED TO MEET THE FOLLOWING CONDUCTED LIMITS:

FCC DOCKET 20780 CURVE "B"

CISPR 22 CLASS "B"

6.0 RELIABILITY REQUIREMENTS

6.1 MTBF: 40000 HOURS

6.2 B-TEST: VIBRATION, SHOCK, ALTITUDE, STATIC COMPRESSION, DROPETC, PLEASE TO B-TEST PROCEDURE	REFER
7.0 MECHANICAL SPECIFICATION	
SEE ASSEMBLY DRAWING	

