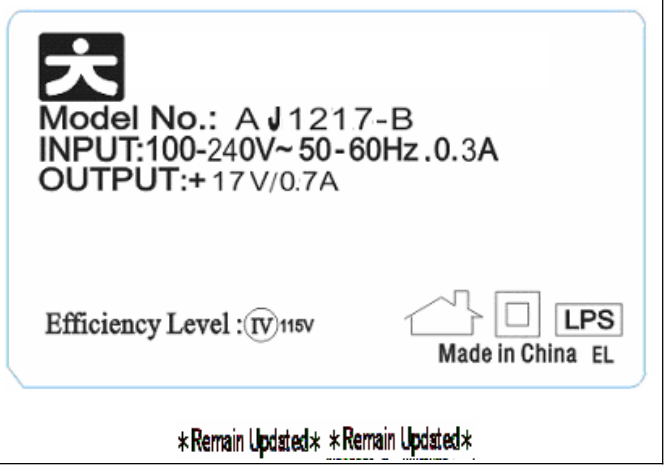
	MODEL NO.	AJ1217-B181	SHEET NO	1
	DESCRIPTION	SWITCHING MODE AC ADAPTER	ISSUED DATE:	JUL/09/2007
			REVISED DATE:	

APPROVAL SIGNATURE
DATE:

CUSTOMER : MEDTECH

Model : AJ1217-B181(0A7F) REV.00

AC Input	100-240Vac	DC Output	17V/0.7A	PC / NP
DC O/P cable	2468 22# 2.1X5.5X9.5mm 90° Tuning Fork +Kink 6FT			
AC plug	US 2Pin	Packaging	PE Bag	



Synergistic Technology Solutions, Inc.

935 Lakeview Parkway, Suite 110
Vernon Hills, IL 60061 USA

CONTACT
AMERICAS (706) 658 2320
WEB www.sts-power.com

Version History:

Date	Version	Description
JUL/09/2007	00	First released

CONTAINS:

INTRODUCTION

This documents specifies ONE voltage +17V power supply for electronic data processing equipment. The power supply will provide power to all system components.

1.0 INPUT REQUIREMENTS

1.1 Input Voltage Designing Range: 100~264 VAC.

1.2 Line Frequency Designing Range: 47 HZ to 63 HZ.

1.3 Input Current: 0.3 A max. at any line voltage specified in 2.1 at output full load condition.

2.0 OUTPUT REQUIREMENTS

2.1Output Power (Rated Power)

The unit total output power from all voltage under steady state condition will not exceed 11.9W watts

2.2Output Regulation

Label Information per Safety Agencies according to UL1950 and or EN60950 Requirements.

2.2.1 Input Rated Voltage Range: 100~240 VAC.

2.2.2 Line Rated Frequency: 50 HZ to 60 HZ.

2.2.3 Static Load

TABLE 2.2.3

Output	Voltage	Minimum Load	Maximum Load	Surge Current
1	+17V	0A	0.7A	------

2.2.4Output Voltage

The output voltage shall be statically regulated for all combinations of load (min./ max.), line and environment, including cross regulation (if any)as shown:

TABLE 2.2.4

Output #	Voltage	Range	Tolerance
1	+17V	+16.15V~+17.85V	-5%,+5%

NOTE: Test measurement will be made at the output connector on the power Supply output cord and well connected on the mating connector.

2.2.5 Ripple and Noise

Differential ripple and noise at the power supply output shall be as shown below when measured under load range of 0.01~0.7A with an oscilloscope with at bandwidth of 20MHz..

TABLE 2.2.5

Output #	Voltage	Maximum peak to peak ripple and noise
1	+17V	170 mV

NOTE: Test measurement will be made at the output connector on the power Supply output cord. With used an aluminum Electrolytic capacitor of 10uf and ceramic of 0.1uf parallel on output terminal can prevent unknown noise pick up.

2.3 Transient Response and Deviation

The load regulation for +17V is less than +/-10% while the measuring is down by changing the measured output loading +20% form +80% of rated load .

2.4 Turn on, Hold up Time

During turn on and turn off, no voltage shall exceed its nominal voltage by more than 10% and no output will change its polarity with respect to its return line. All outputs shall reach their steady state values within 2 seconds of turn on and the hold up time for the output must be at least 10 mS tested at 110VAC/50HZ input with 80% maximum load on output.

2.5 Efficiency

The efficiency (watt out/watt in) shall be a minimum of 72.3 % under line input 115Vac/60Hz and full load.

3.0 PROTECTION

3.1 Input Current

An input fuse with a rating of 2A/250V Amps, shall be provided to protect the power supply and the input wiring. Note: The fuse shall be an unchangeable unit.

3.2 Output Voltage (OVP)

The power supply shall shut down all outputs when any output voltage reaches to it's over voltage protection trigger point. (Maximum=130% output voltage)

Note: This is not a repeatable test, when it triggers it is a perennial shut down.

3.3 Output Current (OCP)

Overload conditions shall cause both the output current and the output voltages to decrease. Removal of an output overload conditions shall permit automatic recovery of the output voltage. The over current protection point Maximum=300% for all outputs . Note : The total output power should not over Rated power to operate ,otherwise will caused the power supply to damage.

3.4 Short Circuit Protection (SCP)

The power supply shall be protected from damage of accidentally short on the output terminal.

4.0 MECHANICAL

Introduction

The power supply will provide

Output power connector show as in

Table 4.1

FRONT VIEW OF OUTPUT CONNECTOR

Table 4.1 Pin out for DC Connector

PIN #	Output Voltage
	

4.2 General Requirements

The power supply must not exceed an audible noise level of 32 dB while operating under any combination of specified load and input voltages and frequencies. This noise level shall be measured according to IEC standards 651 type 1, with the sound level meter pointed directly at the power supply in a free-field condition, at a distance of 1 meter and by selecting nominal "A" weighting frequency attenuation.

4.3 Power Supply Dimensions

The dimensions of the power supply are shown : (60x 38x 26 m/m)

4.4 Input / Output Connection

AC PLUG	2PIN
DC O/P CABLE	2468 22# 2.1X5.5X9.5mm 90° Tuning Fork +Kink 6FT

4.5Unit Color: BLACK

5.0 RELIABILITY

5.1 Reliability

The design and construction of this power supply shall exhibit a minimum mean time between failure of 50,000 hours full rated load operation at 25.0℃, According to the MIL-HDBK-217F.

5.2 Burn-in

The power supply will be performed 100% burn-in at 40℃(±5℃) under 80%-100% of full load on all power supplies.

6.0 ENVIRONMENT

6.1 Storage

The power supply shall be capable of withstanding the following environmental conditions for extended periods of time, without sustaining electrical and/or mechanical damage and subsequent operational deficiencies:

6.1.1 Ambient temperature: -25℃ ～ +85℃

6.1.2 Relative Humidity: 10% ～ 95%

6.2 Operation

The power supply shall be capable of operating continuously in any mode without performance deterioration in the following environmental conditions:

6.2.1 Ambient Temperature: 0℃ ～ 40℃

6.2.2 Relative Humidity: 10% ～95%.

7.0 EMI EMISSIONS

The power supply meets the radiated and conducted emission requirements for a FCC part 15B (class B)(DoC)

8.0 SAFETY

The power supply must be certified or meet of the following safety standards:

	Certified	Meet
UL /CUL		★
PSE		★
BSMI		★

8.1 Dielectric Strength (Hi-Pot) Test System:

Withstand AC 3 K V/10mA, for 2 sec./ min., primary to secondary.

8.2 Insulation Resistance:

Primary to secondary: 10M OHM at 500 VDC .

8.3 Leakage current: ≦ 0.25mA

9.0 ENVIROMENTAL PROTECTION

9.1 RoHS and WEEE

This product from design to production all the parts and process should meet the requirement of Restriction of the use of certain hazardous substances in electrical and electronic equipment RoHS directive 2002/95/EC and also meet the directive 2002/96/EC of Waste electrical and electronic equipment (WEEE) .

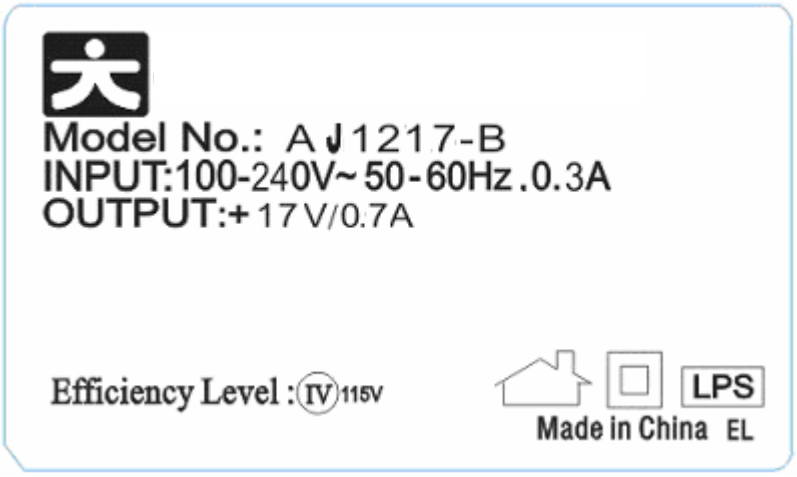
9.2 EPA/CEC/MEPS regulation

To meet the energy saving trend, this product has designed to meet the American EPA energy star program for the EPS regulation , or requirement of CEC 400-2006-002, AS/NZS/4665.2.2005 for Australia and New Zealand.

10.0 PACKAGING: PE Bag .

11.0 LABEL/MARKING

White Background with Green wordings and marks



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12.0 OUTLOOKING