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Pay attention to protection notes of DIN 34.

1.0 INTRODUCTION

This document specifies a switching power supply with a output of +9V, and electronic process. The switching power supply will provide power for technology equipments including electrical business equipment.

2.0 INPUT REQUIREMENTS

2.1 Input Voltage Range: 100VAC(-10%) to 240VAC(+10%)

2.2 Input Frequency Range: 47 Hz to 63 Hz

2.3 Input In-rush Current: 50A Max (Actual test result is 16.8A)

2.4 Input Current: 0.60A Max

3.0 OUTPUT REQUIREMENTS

3.1 Output Voltage: +9V

3.2 Output Regulation: 8.55V~9.45V

3.3 Output Load Range: 0~2.0A

3.4 Output Ripple & Noise: 90mV Max @20MHz BANDWITH

4.0 EFFICIENCY: 70% @ FULL LOAD & 120 VAC INPUT

5.0 DIELECTRIC STRENGTH (Hi-Pot) TEST

5.1 Finished product withstands AC 3.0KV, for 2 second,4mAxmax primary to secondary.

5.2 Transformer withstands AC 3.0KVrms, 60Hz for 1 minute, primary to secondary.

5.3 Transformer withstands AC 3.0KV, 60Hz for 1 minute, primary to core.

6.0 INSULATION RESISTANCE

Primary to secondary: 50MOHM to 500VDC.

7.0 PROTECTION

7.1 Input Protection

The switching power supply has a 2 amps inner current fuse to protect itself.

7.2 Output Protection

7.2.1 Output Current:

Overload conditions shall decrease the output current. Removal of an output Overload shall provide automatic recovery for the output voltage.

7.2.2 Short Circuit Protection: Auto Recovery.

7.2.3 Over Voltage Protection: 14V ±1V

8.0 ENVIRONMENTAL CONDITIONS

The switching power supply can withstand the following environmental conditions:

8.1 Storage Temperature:-20℃ ~ +70 ℃

Relative Humidity: 10% ~ 95%

8.2 Operation Temperature:0°C~40°C

Relative Humidity: 10%~95%

9.0 EMI / EMC

The switching power supply has approved by the following standards:

(1)EN55022(EN61000-3-2. EN61000-3-3)

(2)EN55024(IEC61000-4-2. IEC61000-4-3. IEC61000-4-4. IEC61000-4-6. IEC61000-4-8. IEC61000-4-11.)

10.0 RELIABILITY AND QUALITY CONTROL

10.1 Burn-in

The burn-in test will be performed at least 2 hours at 40 centigrade degrees under full load condition.

10.2 MTBF

When the operation is compling with this specification, the switching power supply s MTBF will be 50,000 hours at 25 centigrade degrees.

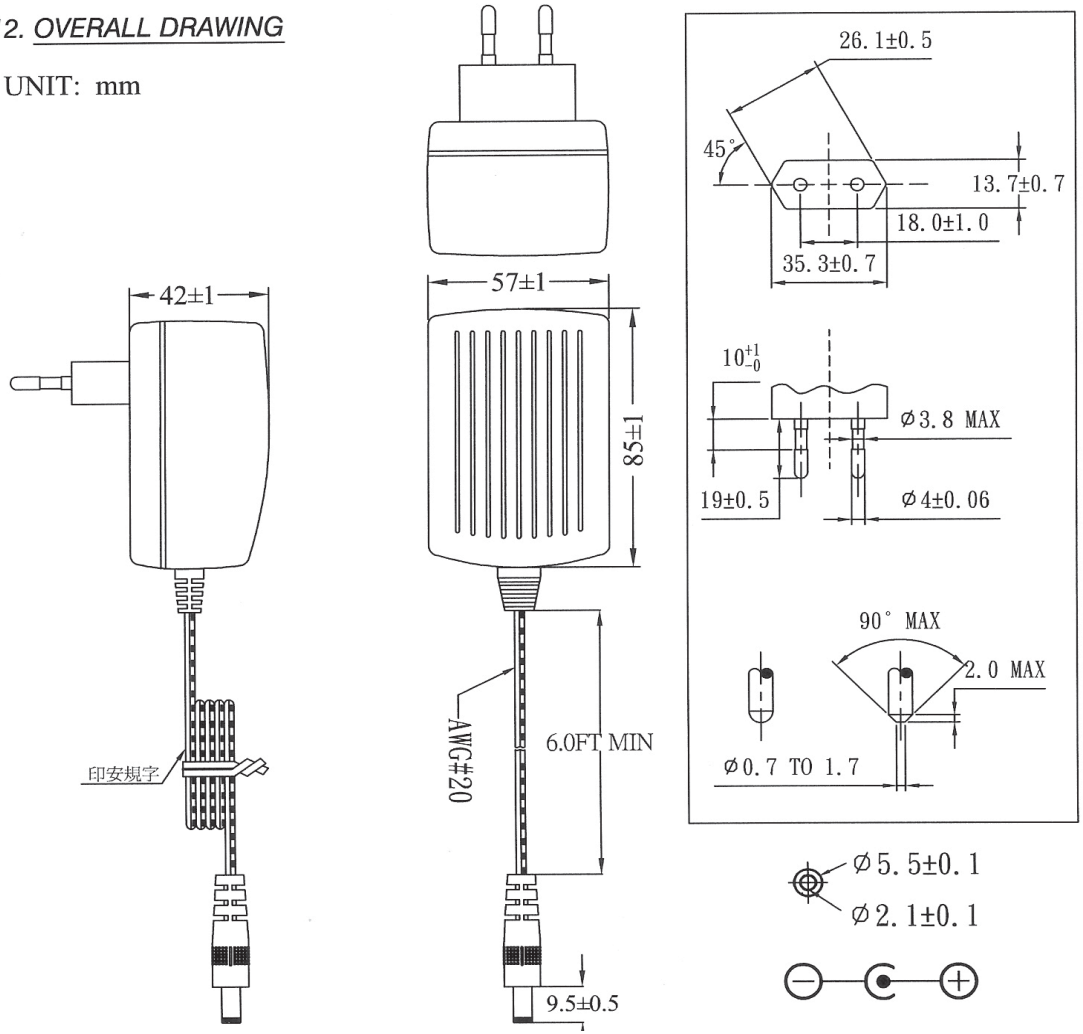
11.0 SAFETY

The switching power supply has approved by the following safety standards:

IEC60950: 1999, EN60950: 2000

12. OVERALL DRAWING

UNIT: mm



DATA SHEET

Description:	**Switching power supply 9V 2A**		
Part-no. SPEED:	**--**	**Part-no. customer:**	**--**
Project-no. SPEED:	**N-IN20Ha2**	**Project-no. customer:**	**--**
Data sheet-no.:	**DBLKS1358**	**Designed:**	**Frank Hesseler**
Index:	**0**	**Checked:**	
Date:	**21.04.2004**	**Page:**	**1 of 1**

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