SPECIFICATION

P/N: A120030HKI

High Quality Switching Desktop Adapter

Universal AC Input 36W 12VDC Output

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** Specification Approval **

This specification (total 7 pages including cover page) is approved in it's entirety by:

Company Name Print Name Signature Date



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1.0 INTRODUCTION

This document specifies a switching power supply with a output of +12V, and electronic process. The switching power supply will provide power for technology equipments including electrical business equipment. The adaptor meets the requirement of lead free and RoHS.

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2.0 INPUT REQUIREMENTS

- 2.1 Input voltage range: 100(-10%)VAC to 240(+10%)VAC
- 2.2 Input frequency range: 50Hz to 60Hz
- 2.3 Input power consumption at no-load : 0.3W Max.
- 2.4 Input in-rush current: 60A Max.
- 2.5 Input current: 1.5A Max.

3.0 OUTPUT REQUIREMENTS

- 3.1 Output voltage: +12V
- 3.2 Output regulation: 11.4-12.6V DC
- 3.3 Output load range: 3.0A
- 3.4 Output ripple & noise: 120mV Max. @ 20MHz bandwidth

10UF/50V capacitance and 104/50V ceramic capacitor.

- 4.0 EFFICIENCY: ≥ 84.77% @ average of 25/50/75/100% loads 115 & 230VAC input
- 5.0 LINE REGULATION: 2% Max.
- 6.0 HOLD UP TIME: 10ms Min. at 110VAC full load.
- 7.0 TURN ON TIME: 2S Max. at 110VAC full load.

- 8.0 TEMPERATURE COEFFICIENT: 0.05%/°C
- 9.0 DIELECTRIC STRENGTH (Hi-Pot) TEST
 - 9.1 Finished product withstands AC 3.0KV, for 2 second, 4mA Max primary to secondary.
 - 9.2 Finished product withstands AC3.0KV, for 2 second, 4mA Max. primary to case.

10.0 INSULATION RESISTANCE

Primary to secondary: 50M OHM to 500VDC.

11.0 PROTECTION

11.1 Input protection

The switching power supply has a 2.5 Amps inner current fuse to protect itself.

- 11.2 Output protection
- 11.2.1 Output current:

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

11.2.2 Short circuit protection: Auto recovery.

12.0 ENVIRONMENTAL CONDITIONS

The switching power supply can withstand the following environmental conditions:

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12.1 Storage temperature: $-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$

Relative humidity: $10\% \sim 95\%$

12.2 Operation temperature: 0°C~40°C

Relative humidity: 10%~95%

13.0 EMI / EMC

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

FCC PART 15B

(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.)

14.0 RELIABILITY AND QUALITY CONTROL

14.1 Burn-in

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

15.0 SAFETY

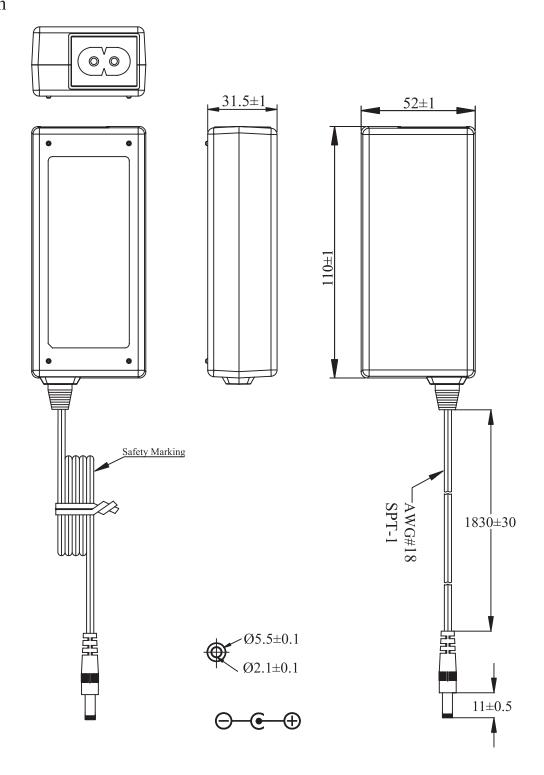
The switching power supply has approved by the following safety standards:

UL60950-1 2nd Edition ,2007-03-27 CSA C22.2 NO.60950-1-07,

2nd Edition.2007-03 EN 60950-1: 2006+A11

16. OVERALL DRAWING

UNIT: mm



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18. MARKING

NAME-PLATE: WHITE CHARACTERS BLACK BACKGROUND.

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UNIT: mm

