

SPECIFICATION

High Efficiency Switching Desktop Adapter

**Universal AC Input
18W 12VDC Output**

P/N: A120015HKI

****Specification Approval****

This specification (total 6 pages including cover page) is approved in it's entirety by:

Company Name

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Date



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031009V1.0

*Specification subject to change without notice unless prior agreement in place.

1. INTRODUCTION

This document specifies a switching power supply with a single +12V output and 18W Max. power. The switching power supply is designed to power technology equipment including electrical business equipment. The adaptor meets the requirements of lead-free and RoHS.

2. INPUT

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

2.2 Input Frequency Range: 47Hz to 63Hz

2.3 Input Power Consumption at no-load : 0.3W Max.

2.4 Input In-rush Current: 50A Max.

2.5 Input Current: 0.6A Max.

3. OUTPUT

3.1 Output Voltage: +12V

3.2 Output Regulation: 11.4-12.6V

3.3 Output Load Range: 0-1.5A

3.4 Output Ripple & Noise: 180mV Max @20MHz bandwidth with
10UF/50V capacitance and 104/50V ceramic capacitor.

4. EFFICIENCY: $\geq 80.40\%$ @ AVG of 25/50/75/100% loads 115V&230V AC input

5. LINE REGULATION: $\pm 2\%$ Max.

6. HOLD UP TIME: 10ms Min. at 110VAC full load.

7. TURN UP TIME: 2S Max. at 110VAC full load.

8. TEMPERATURE COEFFICIENT: 0.05%/°C

9. DIELECTRIC STRENGTH (Hi-Pot) TEST

9.1 Primary to Secondary: AC 3000VRMS, 4mA, 1 minute

10. INSULATION RESISTANCE

Primary to secondary: 50M OHM to 500VDC.

11. PROTECTION

11.1 Input Protection

The switching power supply has a single 2A inner fuse for protection.

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. ENVIRONMENTAL CONDITIONS

The switching power supply can withstand the following environmental conditions:

12.1 Storage Temperature: -20 °C ~ +70 °C

Relative Humidity: 10% ~ 95%

12.2 Operation Temperature: 0 °C~40 °C

Relative Humidity: 10%~95%

13. EMI / EMC

The switching power supply has approved by the following standards:

FCC PART 15B

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

EN55024 (IEC61000-4-2. IEC61000-4-3. IEC61000-4-4.

IEC61000-4-6. IEC61000-4-8. IEC61000-4-11.)

14. RELIABILITY AND QUALITY CONTROL

14.1 Burn-in

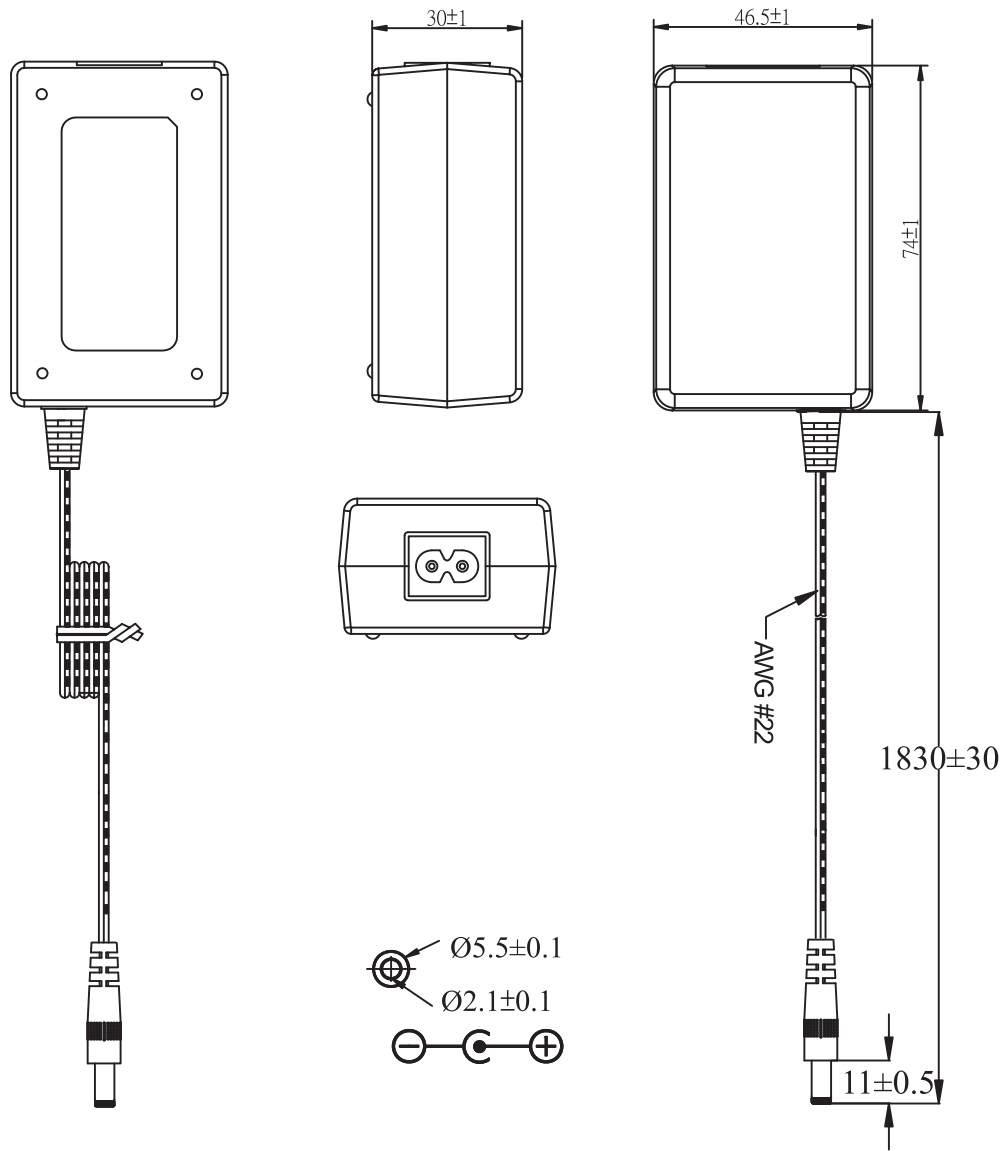
The burn-in test will be performed at least 2 hours at 40 centigrade degrees under full load condition.

15. 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, EN60950-1: 2006+A11

16. DRAWING

UNIT: mm



17. LABEL

