

SPECIFICATION

Universal AC Input 18W 15VDC Output Switching Desktop Adapter

P/N: A150012HK8

**** 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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101910V1.0

1.0 INTRODUCTION

This document specifies a switching power supply with a output of +15V, and electronic process. The switching power supply will provide power for technology equipments including electrical business equipment. The adapter meets the requirement of lead free and RoHS.

2.0 INPUT REQUIREMENTS

- 2.1 Input Voltage Range: 90VAC to 264VAC
- 2.2 Input Frequency Range: 47Hz to 63Hz
- 2.3 Input Power Consumption at no-load : 0.5W Max.
- 2.4 Input In-rush Current: 50A Max.
- 2.5 Input Current: 0.6A Max.

3.0 OUTPUT REQUIREMENTS

- 3.1 Output Voltage: +15V
- 3.2 Output Regulation: 14.25-15.75V
- 3.3 Output Load Range: 0-1.2A
- 3.4 Output Ripple & Noise: 200mV Max. @ 20MHz bandwidth with
10UF/50V capacitance and 104/50V ceramic capacitor.

4.0 EFFICIENCY: $\geq 76\%$ @ average of 25/50/75/100% loads 115V & 230V AC input

5.0 LINE REGULATION: 2% Max.

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

7.0 TURN UP 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 AC 3.0KV, 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 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:

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

Relative Humidity: 10% ~ 95%

12.2 Operation Temperature: $0^{\circ}\text{C} \sim 40^{\circ}\text{C}$

Relative Humidity: 10% ~ 95%

13.0 EMI / EMC

The switching power supply has approved by the following 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.

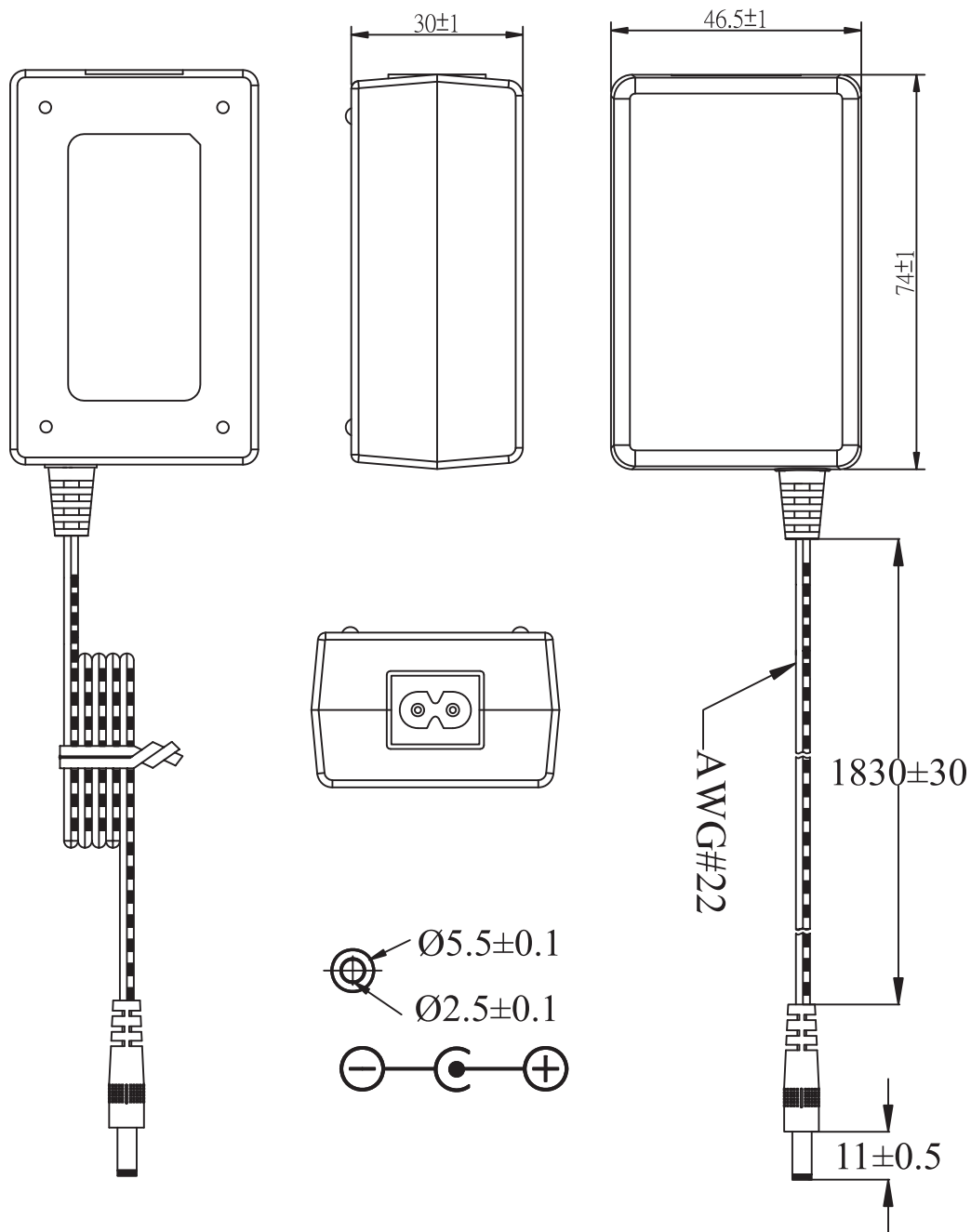
15.0 SAFETY

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 EN60950-1: 2006+A11

16. OVERALL DRAWING

UNIT: mm



17. MARKING

UNIT: mm

