

SPECIFICATION

High Quality Switching Desktop Adapter

Universal AC Input
22W 18VDC 1.2A Output

P/N: A180012HK1

****Specification Approval****

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

Company Name

Print Name

Signature

Date



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081011V.1

1.0 INTRODUCTION

This specification defines the input and output performance characteristics, environment, noise and safety requirements for a 22W switching power supply. The power supply input/output is full range AC input and +18V 22W max. output.

2.0 INPUT REQUIREMENTS

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

2.2 Input Frequency Range: 47 Hz to 63 Hz

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

2.4 Input In-rush Current: 50A Max.

2.5 Input Current: 0.8A Max.

3.0 OUTPUT REQUIREMENTS

3.1 Output Voltage: +18V

3.2 Output Regulation: 17.1-18.9V

3.3 Output Load Range: 1.2A

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

4.0 EFFICIENCY: 81.55% @ average of 25/50/75/100% loads 115V&230VAC input

5.0 LINE REGULATION: 2% Max.

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

7.0 TURN ON TIME: 2 Sec 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.

9.3 Finished product withstands AC 1.25KV, for 2 second, 4mA Max primary to gnd.

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.

11.2.1 Output Current Protection:

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

The switching power supply can withstand the following environmental conditions:

12.1 Storage Temperature: -20 ~ +70

Relative Humidity: 10% ~ 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 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.)

14.0 RELIABILITY

14.1 Burn-in

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

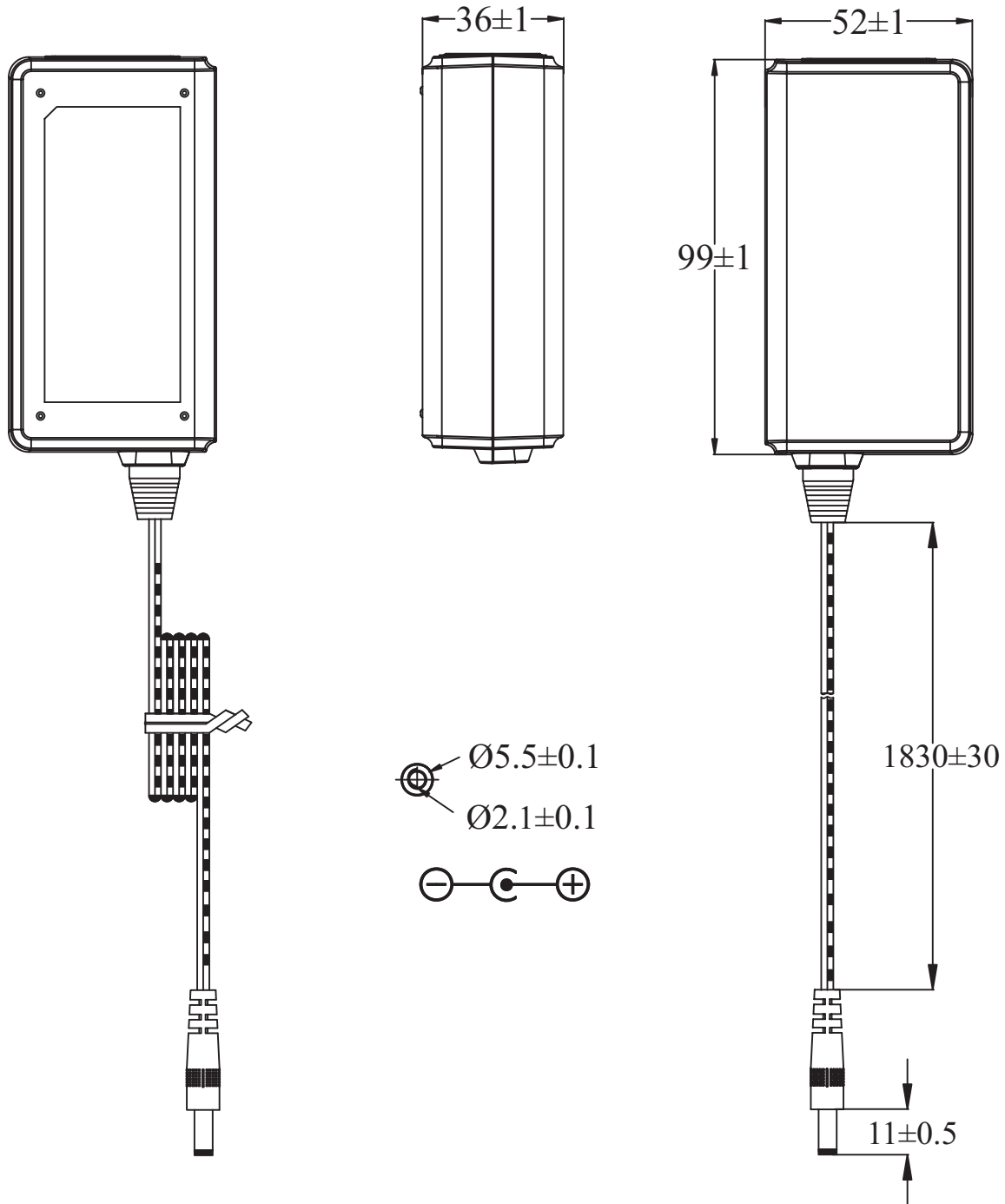
15.0 SAFETY

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: 2006+A11

16.0 MECHANICAL

UNIT: mm



17.0 LABEL

UNIT: mm

