

SPECIFICATION

Desktop Power Adaptor Universal AC Input 30W 15VDC Output

P/N: A150020HKL

*** Specification Approval ***

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

Company Name

Print Name

Signature

Date

Specification subject to change without prior notice.



Santa Clara, CA 95054
Tel: 408-980-9813
Fax: 408-980-8626
infor@topmicro.com
www.topmicro.com
091412V.A

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 adaptor meets the requirement of lead free and RoHS.

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: +15V

3.2 Output Regulation: 14.25-15.75V

3.3 Output Load Range: 2.0A

3.4 Output Ripple & Noise: 300mV Max @20MHz bandwidth with
10UF/50V capacitance and 104/50V ceramic capacitor.

4.0 EFFICIENCY: 83.62% @ average of 25/50/75/100% loads 115V&230VAC input

5.0 LINE REGULATION: ±2% maximum

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 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 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 J55022(H20)

(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.

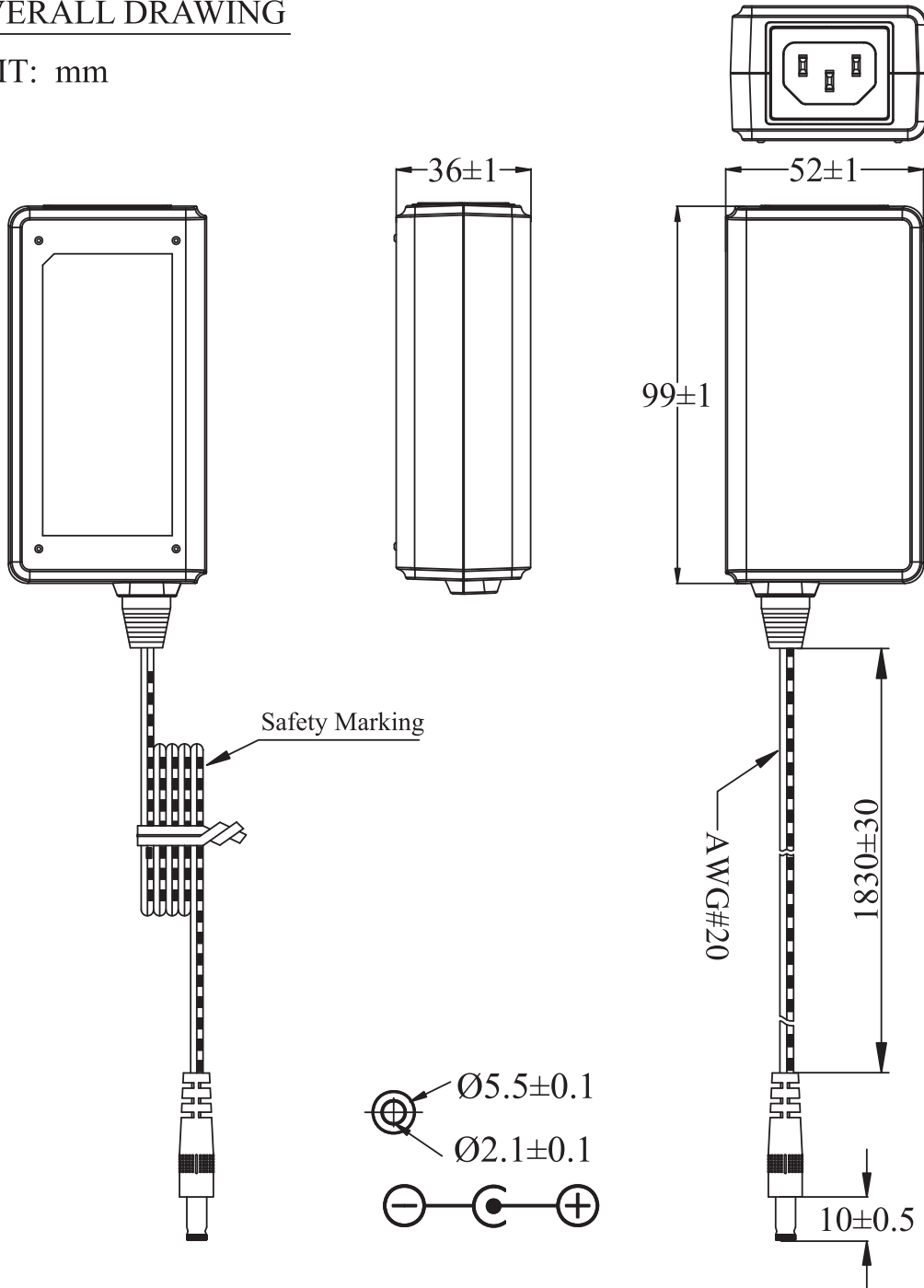
15.0 SAFETY

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, J60950

16. OVERALL DRAWING

UNIT: mm



*DC Plug: 2.1 x 5.5 x 10.0mm, center-positive, straight

*Overmold: Shall not exceed 8.6mm diameter (detailed drawing to be provided)

*Drawing for reference only

18. MARKING

UNIT: mm

