

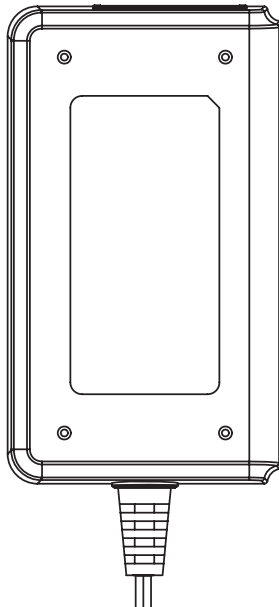


IDEALPOWER

experts in power conversion

Ideal Power Ltd Product Specification Document

Description	AC / DC PSU
Model Number	25HK-AJ-050A300-DH
Revision	A0
Notes	-



Ideal Power Ltd

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CUSTOMER		PART NO	HKSC-130367	
MODEL NO		25HK-AJ-050A300-DH	REV	(A0)
REV	DATE	DESCRIPTION		REMARKS
SAFETY APPROVAL:		ENGINEER APPROVAL:		
		ELECTRICAL	STRUCTURAL	
張偉松		歐陽建瓊	李曉豐	

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1.0 INTRODUCTION

This document specifies a switching power supply with a output of +5V, 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 In-rush Current: 50A Max

2.4 Input Power Consumption at no-load : 0.3W Max

2.5 Input Current: 0.8A Max

3.0 OUTPUT REQUIREMENTS

3.1 Output Voltage: +5V

3.2 Output Regulation: 4.75-5.25V

3.3 Output Load Range: 3.0A

3.4 Output Ripple & Noise: 200mV Max @20MHz bandwidth with
10UF/50V capacitance and 104/50V ceramic capacitor.

4.0 EFFICIENCY: $\geq 76.41\%$ @average of 25/50/75/100% loads 115&230VAC input

5.0 LINE REGULATION: $\pm 2\%$ maximum

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 Primary to Secondary :AC 3000 Vrms ,4mA,1minute for type test,
2 second for production test.

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 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°C ~ +70 °C

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 AS/NZS 55022/55024 J55013 (H22)

(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.

14.2 MTBF

When the operation is complying with this specification, the switching power supply's MTBF will be 50,000 hours at 25 centigrade degrees.

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 BS EN60950-1:2006

AS/NZS 60950.1:2003+A1+A2+A3

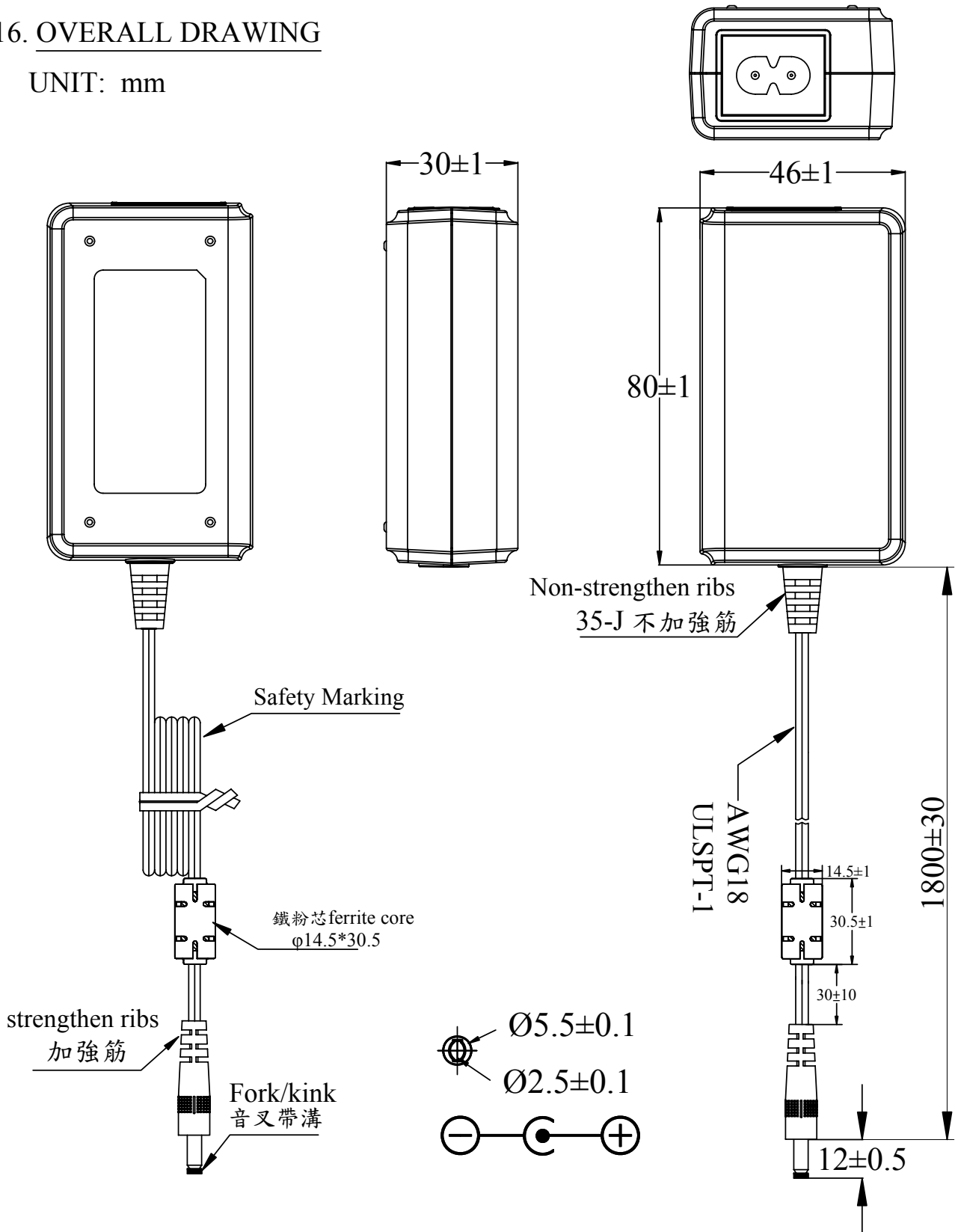
電気用品の技術上の基準を定める省令第2項

Article 2 of The Technical Requirements of the METI Ordinance

J60065 (H23), J55013 (H22) 及び J3000 (H21)

16. OVERALL DRAWING

UNIT: mm



17. PACKING

17.1 Inner Box

UNIT: mm

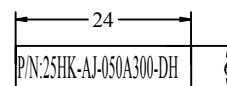
BOX (
 Normal BOX
 Corrugated BOX

Length: 100

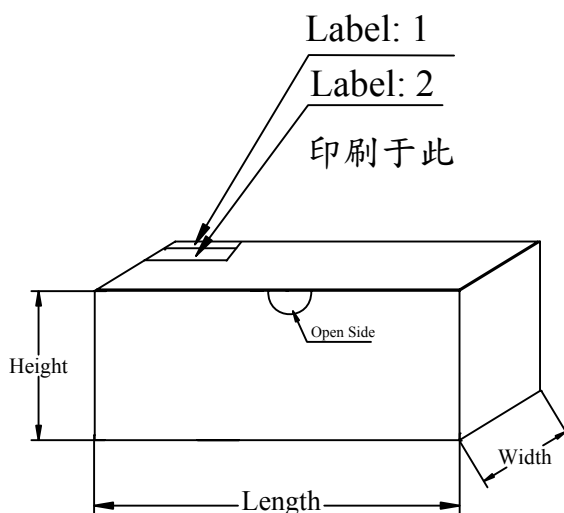
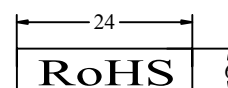
Width: 50

Height: 48

Label: 1



Label: 2



Material: A卡400磅(0.53t)White

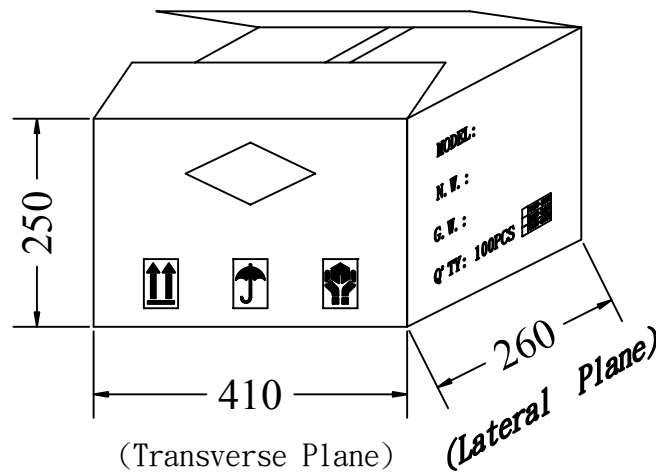
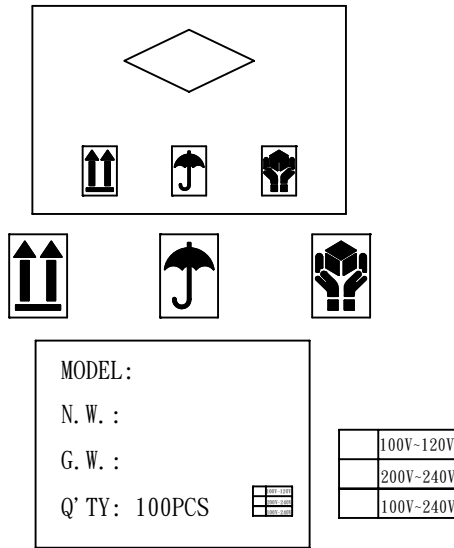
NOTICE:

Its probably different from the white box of the sample and the figure dimension.
The white box is used to pack during product.

17. PACKING

17.2 Carton

UNIT: mm



18. MARKING

200# CPC 合成紙+上光 NAME-PLATE:WHITE CHARACTERS BLACK BACKGROUND.
LASER PRINTING ON THE PLASTIC CASING.

UNIT: mm $\overline{M} \overline{M} \overline{Y} \overline{Y} \overline{C}$
 month year
 made in China
 by Hon-kwang

