Guangzhou Dajing Science and Technology Co., Ltd.

SPECIFICATION FOR APPROVAL

CUSTOMER:	中崎	MODEL NO:	ADP-60E2
CUSTOMER P/N:		PRODUCT NO.:	60130
CUSTOMER MAINFRAME MODEL:		REV. NO:	A
		DATE:	May.13.2019

DESCRIPTION: Input: 100-240Vac; Output:12V5A.

Dear Customer:

Please send one copy of this specification back after you sign and approve for production

Approved By:

Date:

ISSUED BY	唐翠华	CHECKED BY	谢汉光	APPROVED BY	周爱华

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Design Revision History

Rev.	Mark	Release Date	Description of Change		Revised By	Approved By
			Before	After		
0			Creation			
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Dajing PN	REV.	DATE	SHEET
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1. SCOPE

This document details the electrical, mechanical and environmental specifications of a switching power supply.

1.1 Description

☐ Wall Mount ☑ Desk-Top

☐ Open Frame ☐ Others

2. INPUT REQUIREMENTS

2.1 Input Voltage & Frequency

The range of input voltage is from **100Vac** to **240Vac**

	Min.	Normal	Max.
Input Voltage	90Vac	100~240Vac	264Vac

2.2 Input Current

The maximum input current is **1.5A** max. at **100Vac-264Vac**.

2.3 Stand-By Power

The input power should be less than 0.5W with No-Load.

3. OUTPUT FEATURES

3.1 Output Parameters

		Spec. Limit			
3.1.1	Output Data	**Min. Value**	**Typical**	**Max. Value**	Test Condition
3.1.2	Output Voltage	11.4Vdc	12VDC	12.6Vdc	0A~5A Loading
3.1.3	Ripple and Noise	—	—	150mVp-p	20MHz Bandwidth 10uF Ele. Cap.0.1uF Cer. Cap.
3.1.4	Output Overshoot			10％Vdc	CC5A(230Vac input)
3.1.5	Peak Load	—		—	110Vac input
3.1.6	Peak Load	7A			220Vac input
3.1.7	Over Voltage Protection			<18V	110~220Vac input

3.2 Turn On Delay

During turn on and turn off, no output voltage shall exceed its nominal voltage by more than **10%** and no output shall change its polarity with respect to its return line. All outputs shall reach their steady state values within **3** seconds of turn on.

3.3 Hold Up Time

10 ms minimum at 115Vac/60Hz input at maximum load, and 20 ms minimum at 230Vac/50Hz input at maximum load.

3.4 Typical Efficiency

The efficiency (watts out / watts in) shall be higher thar **80%** typical while measuring at nominal line and maximum load condition, test in 1 minute after power on.
(Input:100Vac-240Vac)

MECHANICAL CHARACTERISTICS

4.1 Physical Dimensions

The detail dimension of the power supply is drawed on APPENDIX A.

4.2 Nameplate

The label of the power supply, please see APPENDIX B.

4.3 Drop Test

adaptor shall withstand six times oriented drops from 1000mm onto concrete (1 fall on each of the 6faces).

SAFETY

5.1 Safety Standard

The power supply shall be certified under the following international regulatory standards

Trademark	Country	Certified Status	Standard
CCC	CHINA	☐	GB4943
UL/CUL	USA/Canada	☐	UL 60950
TUV	Europe	☐	TUV/VDE-EN60950
CE	Europe	☐	Declared & CE Mark
FCC	USA	☐	PART 15 CLASS B
BIS	INDIA	☐	IEC 60950
CB	member States	☐	IEC 60950
Others			

5.2 The power supply shall comply with all applicable local,national and international EMC requirements and standards in all the countries

5.3 Insulation Resistance

Input to output: 10 MΩ min. at 500 VDC.

5.4 Dielectric Strength (Hi-Pot)

Primary to Secondary AC1500V,3.5mA 1 minute for type test,
AC1700V,3.5mA 2 seconds for product.

5.5 Leakage Current

The leakage current shall be less than 100uA for Class II when the power supply is operated maximun input voltage and maximum frequency.

6. PROTECTION REQUIREMENT

6.1 Over-Voltage Protection

Over-voltage protection shall be included in the adaptor circuit. A single component failure must not cause an over voltage.

6.2 Over-Current Protection

The power supply shall be protected (hiccupped & power reduced) when any output operating in overload condition under any line condition for

an indefinite period of time. The power supply shall be self-recovery when the fault condition is removed.

7. ENVIRONMENTAL CONDITIONS

7.1 Operating

The power supply shall be capable of operating normally in any mode without malfunction happens in the following environmental conditions.

7.1.1 Operating Temperature: 0℃ ～40℃ (Can operate normally)

Relative Humidity: 10% ～ 90%

Altitude: Sea level to 2,000 m.

7.1.2 Vibration: 1.0mm, 10 –55Hz, 15 minutes per cycle for each axis (X, Y, Z).

7.1.3 Cooling: Natural convection cooling

7.2 Non - Operating

The power supply shall be capable of withstanding the following environmental conditions extended periods of time, without sustaining electrical or mechanical damage and subsequent operational deficiencies.

7.2.1 Storage Temperature: -30℃ ～ 70℃

7.2.2 Relative Humidity: 10% ～ 90%

7.2.3 Altitude: Sea level to 2,000 m.

7.2.4 Vibration and Shock:

The power supply shall be designed to withstand normal transportation vibration per MIL–STD-810D, method 514 and procedures X, as it is mounted in the chassis assembly and packed for shipping.

8. RELIABILITY AND QUALITY CONTROL

8.1 Burn-In

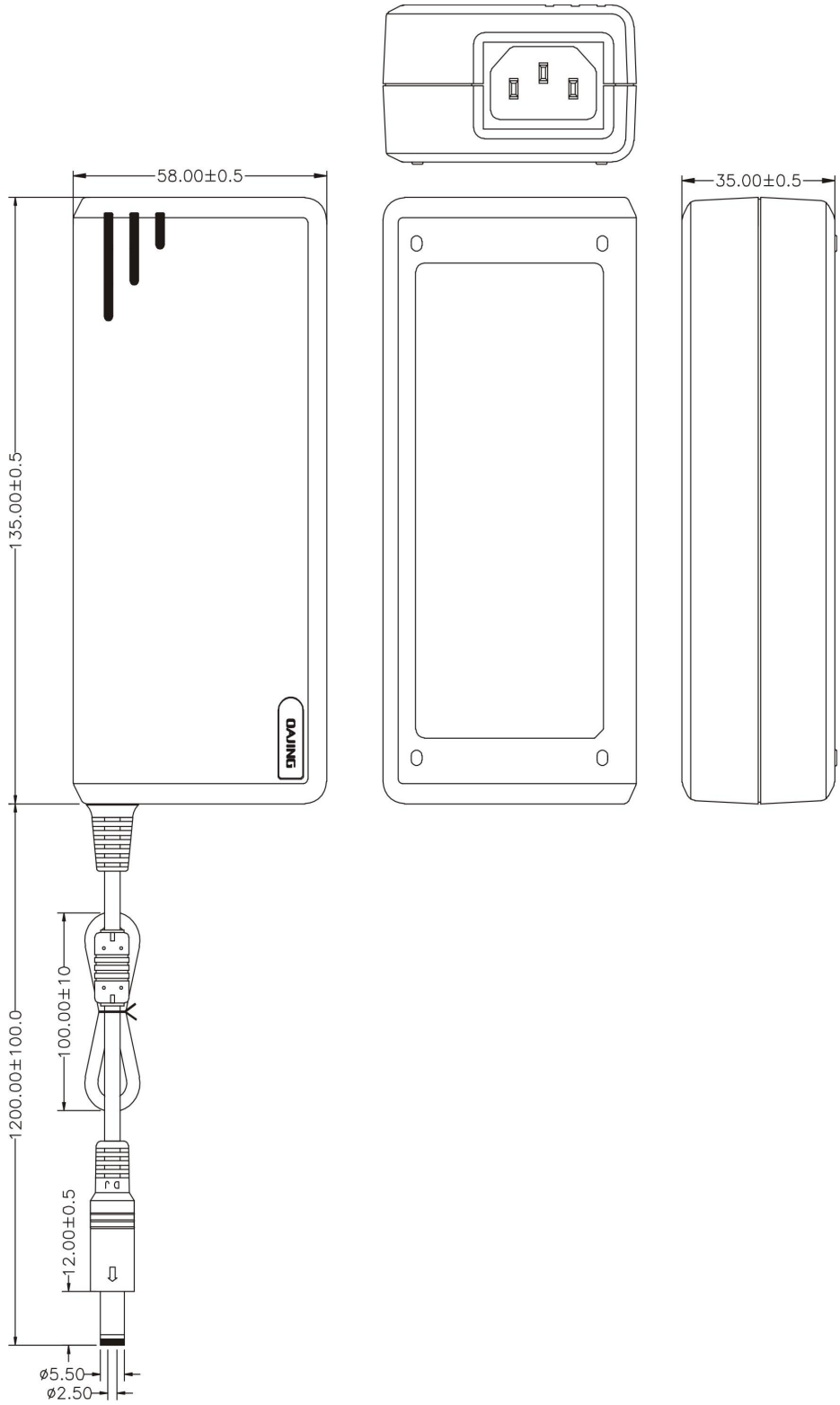
The power supply shall withstand a minimum of **2** hours Burn-In test under full load at 25℃ ~40℃ room temperatures, after test, product shall operate normally.

8.2 Component Derating

Semiconductor junction temperatures shall not exceed the manufacturer's maximum thermal rating.

APPENDIX A

Unit: mm



REMARK	COLOR: BLACK

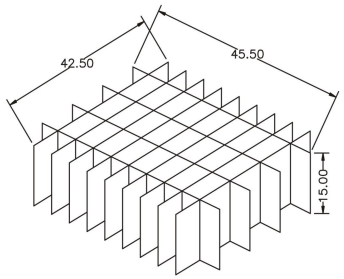
APPENDIX B

Name Plate: (Unit: mm)

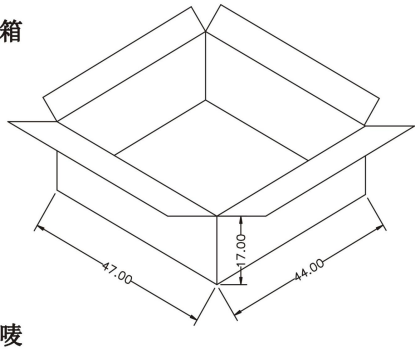


APPENDIX C

卡纸



纸箱



侧唛



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尺寸（单位:**CM)**

	长	宽	高	品号
纸箱	47	44	17	AY150010005
卡纸	42.5	45.5	15	AY150010007
汽泡袋	13	22		AY150010062
封袋贴	4.2	2.5		AY150010058

PACKING METHOD：

PACKING METHOD		50PCS/LAYER X 1LAYERS
QTY		50PCS
N.W./PC		g
G.W./CARTON		kg