



深圳盛基电源有限公司

Shenzhen Shengji Mains CO., LTD

SPECIFICATION FOR APPROVAL

客户承认书

CUSTOMER/客户: 日本海渡电子有限公司

FILE NO./认证号:

PART NO./物料号: 1200500

MODEL NO./产品型号: RS-120050001

Product name/产品名称: AC-DC ADAPTER 12V500mA日规 (5521弯头)

PRODUCT NO./产品编号:

MAINFRAME MODEL/主机型号:

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# ELECTRICAL PERFORMANCE/电气性能

1. SAFETY STANDARD/安规标准:

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

电源应符合下列的国际标准

PSE	Japan(日本)	Meet	电安法

2. DIELECTRIC WITHSTANDING STRENGTH(HI-POT)/绝缘介电强度(耐压) (S):

Primary to Secondary AC3000V, 5mA\_1 minute for type test, 3 second for production.

一次侧对二次侧: AC3000V, 5mA标准测试1分钟, 量产测试3秒钟.

3. INPUT FEATURE/输入特性:

3.1 RATED INPUT VOLTAGE: 100Vac to 240Vac. 额定输入电压范围从100Vac到240Vac.

INPUT VOLTAGE RANGE: 90Vac to 264Vac. 输入电压范围从90Vac到264Vac.

3.2 RATED INPUT FREQUENCY: 50/60Hz. 额定输入频率50/60Hz.

INPUT FREQUENCY RANGE: 47Hz to 63Hz. 输入频率范围从47Hz到63Hz.

3.3 INPUT CURRENT: 0.2A max. at 100-240Vac. 最大输入电流0.2A(输入条件100-240Vac).

3.4 INRUSH CURRENT: 40A max. at 100-240Vac input for a cold start at 25°C.

在冷开机条件下,最大浪涌电流不超过40A(输入条件100-240Vac).

3.5 EFFICIENCY: More than 72% at 115/230Vac input and output full load.

效率高于72%(输入115/230Vac和输出满载条件).

4. OUTPUT FEATURE/输出特性:

RATED OUTPUT/额定输出 (I)	SPEC. LIMIT/规格限定		REMARK/备注
	Min. value	Max. value	
<u>12VDC</u>			
Output regulation/输出电压规格 (I)	<u>11.40VDC</u>	<u>12.60VDC</u>	<u>按承认样品为准</u>
Output load/输出负载规格	<u>0A</u>	<u>500mA</u>	
Ripple and Noise/输出纹波及噪声 (I)		<u>120mVp-p</u>	AT input Voltage: 220Vac
			20MHz Bandwidth 10uF
			Ele. Cap. 0.1uF Cer. Cap.
Hold up time/关机维持时间	<u>8mS</u>	-	Input voltage: 100Vac
	<u>16mS</u>	-	Input voltage: 220Vac
Transient response/输出瞬态响应	-	<u>800mV</u>	Output load change from 20% to 80% of MAX. load( <u>0.5A</u> )
Over - shoot.		<u>10 %</u>	Less than 5 % of Normal voltage value.
Rise time.		<u>20mS</u>	The output voltage should rise from 0 volts settle within regulation in less than 20 msec From apply of AC input voltage.
Turn-on time		<u>4S</u>	Dc output turn-on delay time shall less than 4 sec.

# ELECTRICAL PERFORMANCE/电气性能

## 5. LED indicator/LED指示

NO LED indicator/无LED指示

## 6. Protection./保护

### 6.1 SHORT-CIRCUIT PROTECTION/输出短路保护:

The power supply shall be protection (hiccupped & power reduced) and no damage shall occur when any output operating in a short circuit condition under any line condition for an indefinite period of time. The power supply shall be self-recovery when the fault condition is removed.

在任何时候,任何输入条件下,当输出操作在短路情况下,电源供应器将进入保护(打嗝或功率下降)模式,当短路故障消失后,电源要能自动恢复正常.

### 6.2 Over current protection/过电流保护

An over current from the output to return line will not damage the power supply.

来自输出的过电流不至于损坏电源供应器

### 6.3 Input protection device/输入保护

An adequate internal fuse on the AC input line is provided

一个适当的保险丝为输入提供保护.

## 7. ENVIRONMENTAL CONDITIIONS/环境条件:

### 7.1 OPERATING/操作条件:

The power supply shall be capable of operating continuously in any mode without performance deterioration in the following environmental conditions.

在下列环境条件下,电源供应器要能够连续操作在各种模式,且不能造成性能的退化.

7.1.1 Operating Temperature: 0°C ~ 25°C with the set of customer/操作温度: 0°C ~ 25°C

配客户的使用设备

7.1.2 Relative Humidity: 20% ~ 80%/相对湿度: 20% ~ 80%

7.1.3 Vibration: 1.0mm, 10-25Hz, 15 minutes per cycle for each axis(x,y,z)

振动: 分别在X,Y,Z方向,1.0mm,10-25Hz,15分钟

7.1.4 Cooling: The power supply will operate with convection cooling, Blocking of vents must not cause damage to the power supply.

电源供应器将操作在对流冷却的环境下,即使将通风口阻塞电源也不允许有任何损伤发生.

# ELECTRICAL PERFORMANCE/电气性能

## 7.2 NON-OPERATING/非操作条件:

The power supply shall be capable of withstanding the following environmental conditions extended periods of time, ( put it into normal ambient condition treated for 30 min, The test result must be satisfied with item 2 & 4 )

电源供应器要能长期的经受下列的环境条件。(在常温常湿中放置30分钟,产品仍须满足上述第2项和第4项的要求.)

7.2.1 Storage Temperature: -20°C ~ 70°C/存储环境温度: -20°C ~ 70°C

Relative Humidity: 10% ~ 90%/相对湿度: 10% ~ 90%

7.2.2 Vibration and Shock/振动和冲击:

The power supply shall be designed to withstand normal transportation vibration per GB/T4857.10, as it is mounted in the chassis assemble and packed for shipping.

电源供应器装配及出货的包装设计,均要能承受正常运输的振动,并符合GB/T4857.10.

## 8. EMC STANDARDS/电磁兼容性标准:

Meets the Limits of/测试符合

Fcc class B

EN55032 class B

J62368-1 (2023), J55032 (H29); EN62368-1; GB4943.1-2022, GB17625.1-2022; EN62368-1

## 9. RELIABILITY AND QUALITY CONTROL/可靠性及品质控制:

9.1 perating at the invariable temperature and invariable humidity (恒温恒湿工作)

The product should operate at 25°C ± 2°C, 90~95%RH, test of operating for 48 hours (full load) (该产品恒温恒湿工作环境为25°C ± 2°C, 90~95%RH, 满载工作状态下进行试验48小时)

9.2 COMPONENT DERATING/元件温度要求(S):

Semiconductor junction temperatures shall not exceed the manufacturer's maximum thermal rating. /半导体结温不允许超过其制造商要求的最大温度值.

9.3 MTBF/平均无故障时间:

50,000 Hour at 25 deg C. /50,000小时在25 deg C.

## 10. INSULATION RESISTANCE/绝缘阻抗:

INPUT TO OUTPUT: 7MΩ min. (500VDC) /输入对输出7MΩ 最小 (500VDC)

## 11. LEAKAGE CURRENT/漏电流:

The leakage current shall be less than 0.25mA for Class II when power supply is operated maximum input voltage and maximum load.

当电源供应器操作在最大输入和最大负载的情况下,其漏电流应小于 0.25mA,满足Class II等级.

## 12. MAJOR MEASURE EQUIPMENT/主要测量设备:

A. AC SOURCE/交流输入电源

B. POWER METER/电源功率计

C. ELECTRONIC LOAD/电子负载

D. OSCILLOSCOPE/存储示波器

E. DIGITAL MULTIMETER/数字式万用表

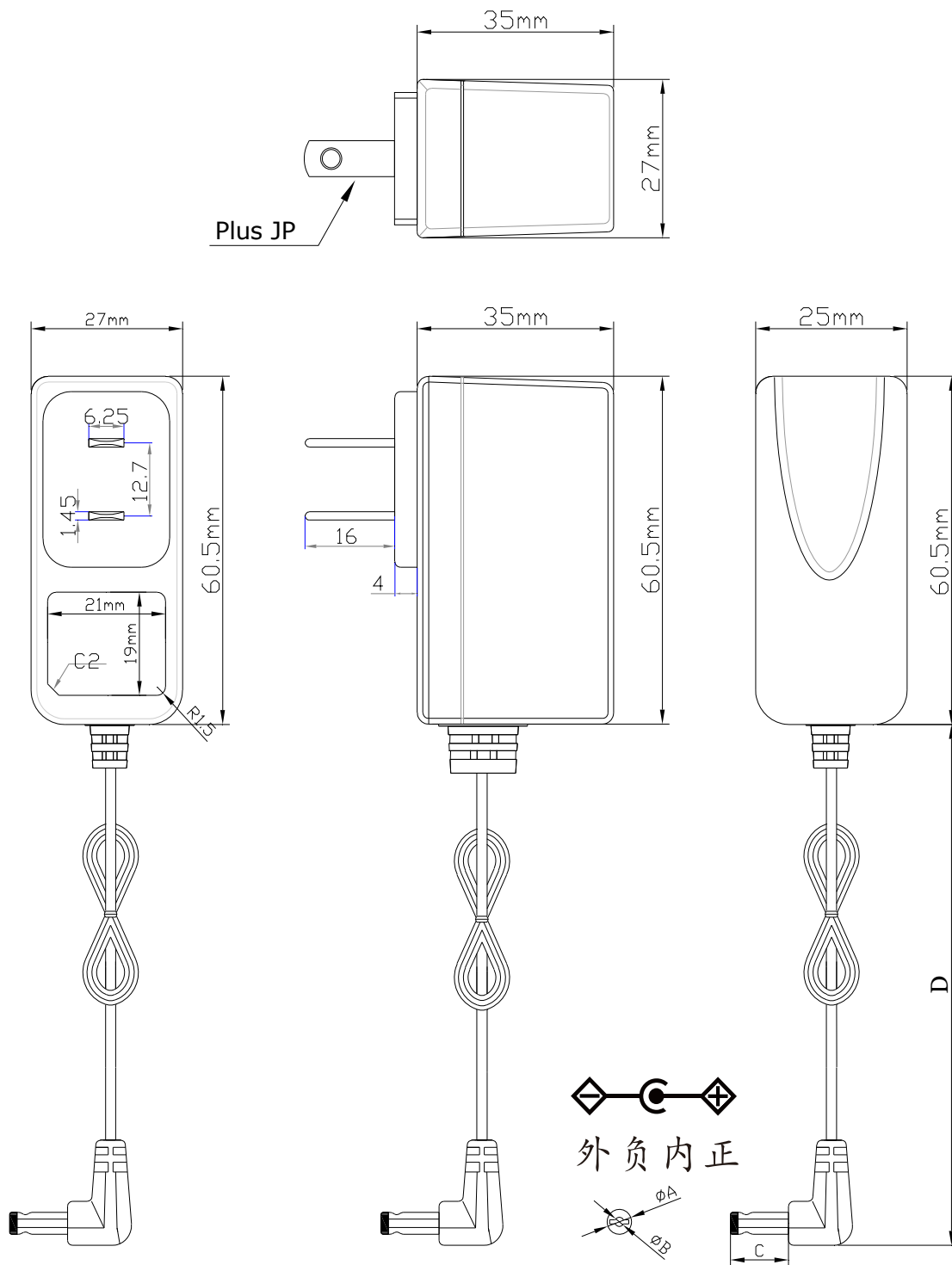
G HI-POT TESTER/耐压测试仪

H INSULATION RESISTANCE TESTER/绝缘电阻表

# EXTERNAL VIEW/外观图

## 13. MECHANICAL DIMENSION (UNIT IN mm)

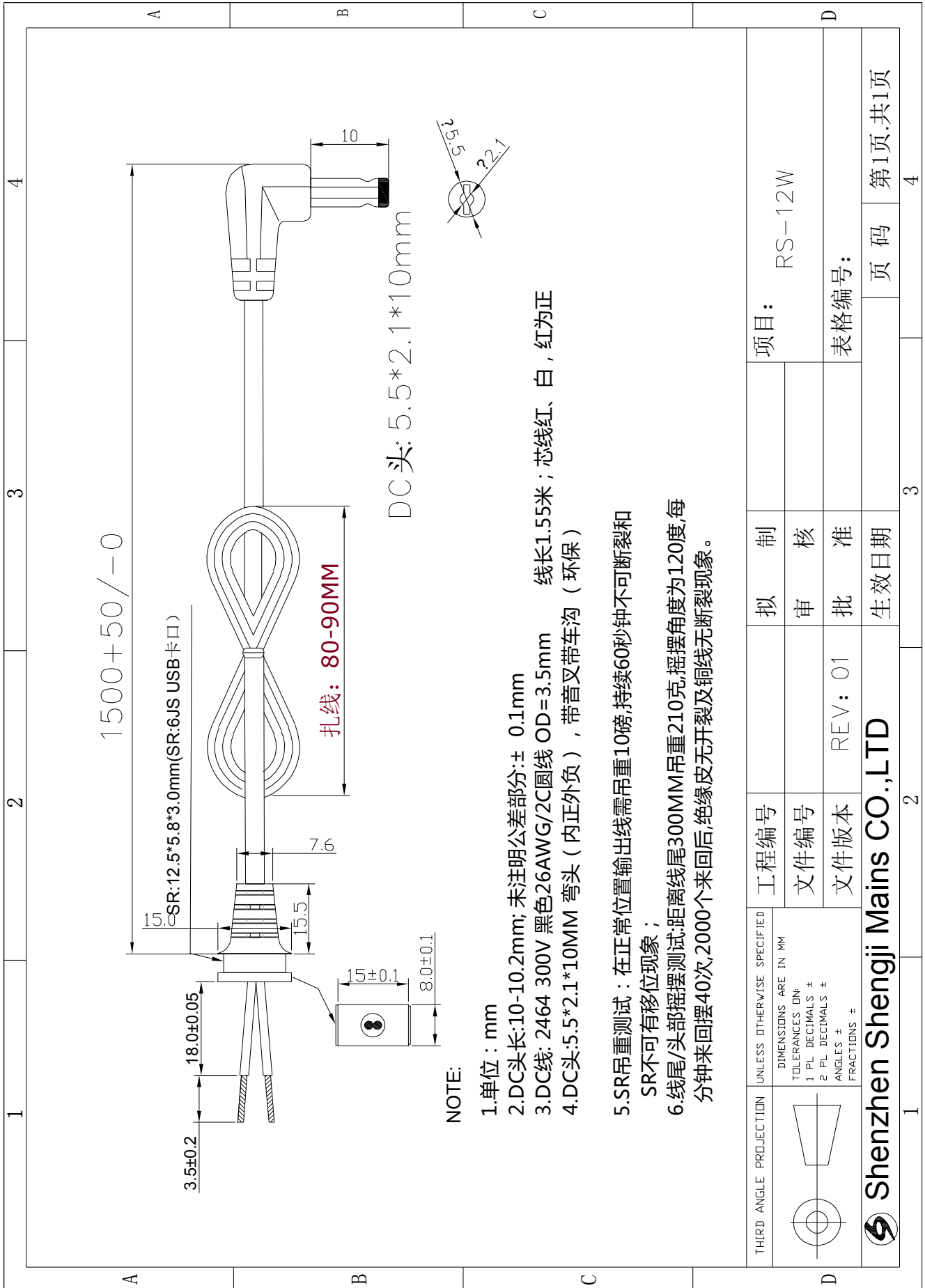
外形尺寸(单位: mm)



	ΦA	ΦB	C	D
DIMENSION/尺寸	5.5	2.1	10	1500
TOLERANCE/公差	±0.05	±0.05	±0.5	+20 / -20
NOTES	Cable length:1.5m, 24/26 AWG/2C 5.5*2.1*10MM 90Degree with Fork/Kink Type and Without Filter			

# OUTPUT WIRE/输出线材

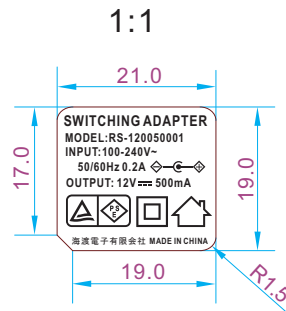
## 14. OUTPUT WIRE/输出线材



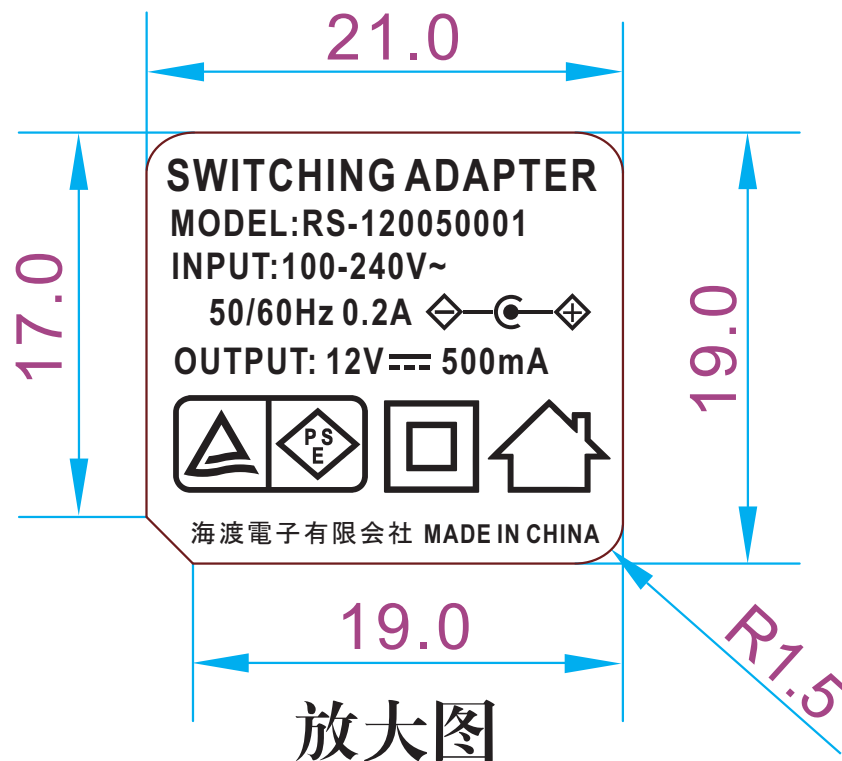
THIRD ANGLE PROJECTION	UNLESS OTHERWISE SPECIFIED	工程编号	拟制	项目: RS-12W
	DIMENSIONS ARE IN MM	文件编号	审核	
	TOLERANCES ARE:	文件版本	批准	表格编号:
	1 PL DECIMALS ±	REV: 01	生效日期	页码
	2 PL DECIMALS ±	Shenzhen Shengji Mains CO.,LTD	第1页,共1页	4
	ANGLES ±			
	FRACTIONS ±			

# NAME PLATE/铭牌

NAME PLATE/铭牌:



比例/Scale: 1:1



UNIT/单位: mm

TOLERANCE/公差: +0/-0.2

THE NAMEPLATE LABEL IS LABELED OR LASER ENGRAVING

铭牌标签采用贴标或激光雕刻

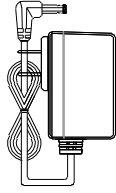
- \* PLEASE ADVISE IF ANY COMMENT ON NAME PLATE INFORMATION. OTHERWISE, THIS INFORMATION IS REGARDED AS CUSTOMER APPROVAL AND APPLY IN PRODUCTION.

铭牌资料供客户样品认可使用, 如有疑问, 请于样品认可前提出, 否则, 资料将视作客户认可并应用于生产上.

# CASING/包装

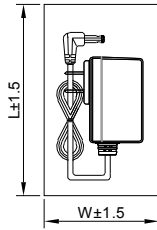
## 16. CASING/包装

PRODUCT成品



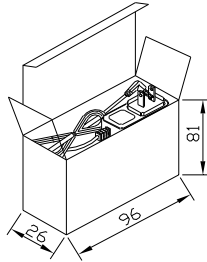
PUT INTO PE BAG

折叠，装入PE袋



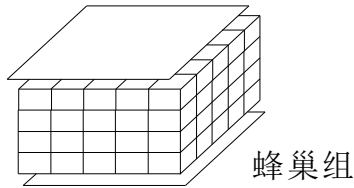
PUT INTO WHITE BOX

装入小白盒



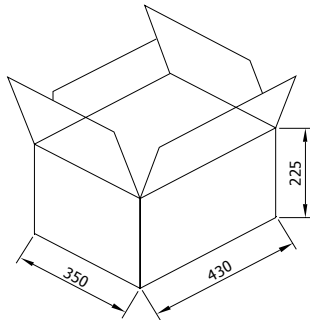
PAPER CARD

刀卡



PAPER CASE

纸箱



MECHANICAL DIMENSION (UNIT IN cm) / 尺寸 (单位 cm):

	L	W	H
PLASTIC BAG/塑料袋	200	120	
WHITE BOX/小白盒	96	26	81
PAPER CASE/外箱	430	350	225

PACKING METHOD/包装方式:

CARDBOARD PLACEMENT METHOD/纸板放置方式	
PACKING METHOD / 装箱方式	
QTY/装箱总数	100PCS/箱
N. G/单个成品净重	
G. W/毛重	

REMARK/备注:

1. STORAGE CONDITION/保存条件

TEMPERATURE/保存温度:  $-10^{\circ}\text{C} \sim +60^{\circ}\text{C}$

RELATIVE HUMIDITY/相对湿度: 30% ~ 80%

2. STORAGE TIME/保存时间: 6 MONTHES/6个月

3. ANLISTATIG: NO REQUIREMENT/无抗静电要求.

4. PLEASE ADVISE IF ANY COMMENT ON PACKING INFORMATION, OTHERWISE, THIS INFORMATION IS REGARDED AS CUSTOMER APPROVAL AND APPLY IN PRODUCTION.

包装资料供客户样品认可使用, 如有疑问, 请于样品认可前提出, 否则, 资料将视作客户认可并应用于生产上.