产品规格确认书
SPECIFICATION FOR APPROVAL

编号/Serial No.：CP01-22635-010

产品料号/Part No.：GM15254402680F0-20D01

版　本/Version：A1.1

产品型号/Product Model：GM152-5440268-F

类　型/Type：交流/直流适配器 AC/DC Adapter

发布日期/Release Date: 2019/11/30

样品颜色/Sample Color: 黑色 Black

卖方 VENDOR			客户 CUSTOMER		
批准 APPROVED	审核 CHECKED	准备 PREPARED	批准 APPROVED	审核 CHECKED	准备 PREPARED

客户确认签字,盖章后请返回承认书一份

Please return to us one copy of "Specification for Approval" with your signature and official seal for approval

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E321192
E489913

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备注：关键元器件物料差异表（安规管控元器件以相应报告为准）：

Notice： Key Component Material Difference Table (Differences between safety control components shall be based on corresponding reports):

名称/位置 Name / Location	规格参数 Specifications	主用品牌 1/型号 Main Brand #1/ Model	主用品牌 2/型号 Main Brand #2/ Model	备用品牌 Backup Brands
开关管 Switch Q1	18AMin 500VMin	东芝 TOSHIBA/18A50		华微 JCS、富士 FUJI、英飞凌 infineon
开关管 Switch Q2	13AMin 600VMin	东芝 TOSHIBA/13A65		华微 JCS、富士 FUJI、英飞凌 infineon
高压电容 High Voltage Capacitor C1，C2	120 uF Min 400VMin	万裕 SAMXON/450V，120 uF	凯泽鑫 CATHER/450V，120uF	尼吉康 nichicon、NCC
电容 Capacitor	220 uF，63V Min	绿宝石 BERYL/220 uF，63V	万裕 SAMXON/220 uF，63V	智宝 Teapo、丰宾 CapXon、凯泽鑫 Gather
电容 Capacitor	470 uF，63V Min	绿宝石 BERYL/470 uF，63V	万裕 SAMXON/470 uF，63V	智宝 Teapo、丰宾 CapXon、凯泽鑫 Gather
整流管 Rectifier BD1	10AMin 600VMin	海湾 GULF/G10B80	光宝 LITEON/1006	虹扬 HY、平伟 PINGWEI
肖特基 Schottky	20AMin 400VMin	平伟 PINGWEI/2040		

上述表格元器件可能会因为厂商某些原因问题，型号丝印可能不完全相同，因此实际货源不局限于上述差异表厂家，但品牌质量，规格同级，请贵公司知悉并理解！

Components in the table above may have different type codes in screen print due to reasons of manufacturers. The actual suppliers may not be restricted within manufacturers listed. The product brand and quality however remain the same grade as those in the table. Please kindly be informed and understand this!

☒ ---------- Selected/选择；

☐ ---------- Unselected/未选择

0. 概述 Overview

此承认书适用于 GM152-5440268-F 型号的适配器，电源设计高度可靠，符合国际安全和电磁兼容要求。测试环境：25 度，湿度 50%。

This Specification for Approval applies to adapters model GM152-5440268-F with a highly reliable power supply design meeting international safety and electromagnetic compatibility requirements under test environment at 25℃ and Relative Humidity of 50%.

1. 输入特性 Input Characteristics

1.1 正常输入电压 Normal Input Voltage

标准电压输入 **100~240VAC** Standard input voltage is **100~240VAC**.

1.2 输入电压范围 Input Voltage Range:

工作电压范围 **90~264VAC** Operation voltage is **90~264VAC**

1.3 输入电流 Input Current

最大电流 2.5A Max. current 2.5A	输入最小电压，输出最大负载。 The min. input voltage produces the Max. load.

1.4 额定输入频率 Rated Input Frequency:

标准范围：50-60Hz The standard frequency range: 50Hz-60Hz.

1.5 输入频率范围 Input Frequency Range:

工作频率范围：47-63Hz

Operation frequency range: 47Hz-63Hz

1.6 空载功耗 No Load Power:

输入电压 115VAC/60Hz 和 230VAC/50Hz 时，最大空载功耗小于 0.15W （满载 15 分钟后重新测试）

Maximum No Load Power consumption is less than 0.15W at 115VAC/60Hz and 230VAC/50Hz

（Retested 15 minutes after full load.）

1.7 浪涌电流 In-rush Current (冷启动 cold start) : 30A Max. @110VAC/60Hz

: 60A Max. @230VAC/50Hz

1.8 功率因素校正 Power Factor Correction: 典型 Typical ≥0.9（115Vac/60Hz and 230Vac/50Hz full load）

1.9 输入保护 Input Protection

5~6.3A 保险丝 5~6.3A Fuse	以熔断方式保护电源免受输入浪涌和其他异常情况的影响。 The power supply shall be protected against input surges and any abnormal condition by blowing it.

1.10 效率 Efficiency:

电源转换效率应满足以下要求（必须预热 30 分钟后测试）

Power conversion efficiency shall meet the following requirements (Test after warming up for 30 minutes):

230VAC / 50Hz 满载效率 230VAC/50Hz Full Load Efficiency 230VAC/50Hz	115VAC / 60Hz 满载效率 115VAC /60Hz Full Load Efficiency 115VAC /60Hz	230VAC / 50Hz 平均效率（25%，50%，75%，100%负载） 230VAC/50Hz Average Efficiency (25%, 50%, 75%, 100% of rated load) 230VAC/50Hz	115VAC / 60Hz 平均效率（25%，50%，75%，100%负载） 115VAC/60Hz Average Efficiency (25%, 50%, 75%, 100% of rated load) 115VAC/60Hz
91.0%	89.0%	89.00%	88.00%

2. 输出特性 Output Characteristics

2.1 额定电压 Rated Voltage（恒压模式 Constant voltage mode）

额定输出电压为 54.4V

The rated output voltage is 54.4V

2.2 电压范围 Voltage Range

输出电压 54.4V±3%时，电流在 0A~2.68A 稳定。

The output voltage is 54.4V±3% with steady current in the range of 0A~2.68A.

2.3 电流 Current

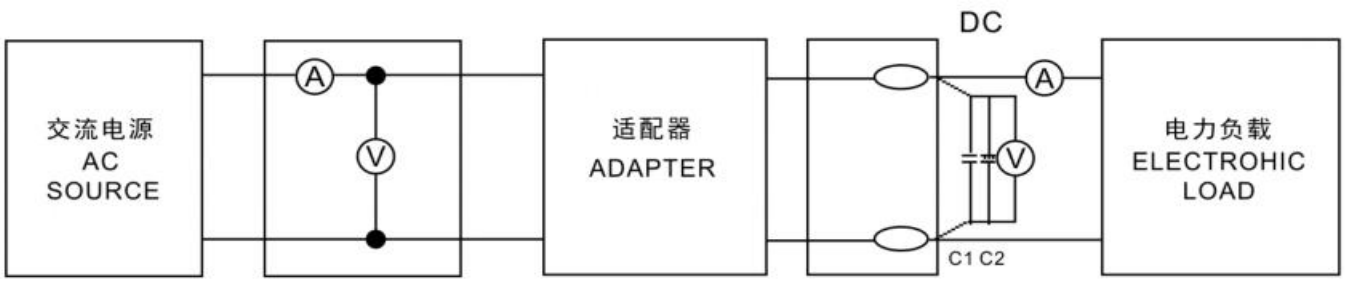
输出电流 0A~2.68A，输出电压满足 2.2 要求。

The output current is in the range of 0A~2.68A and output voltage meets requirements in Section 2.2.

2.4 纹波/噪音 Ripple/Noise

输出纹波电压峰峰值为≦300mV。（100VAC 60Hz / 240VAC 50Hz）

Peak of output ripple voltage≦300mV. (100VAC 60Hz/240VAC 50Hz)



测试方法 Test Methods

在 25℃环境下，标准的输入电压，输出满载，示波器为 20MHz 带宽，被测物并联 0.1uF 陶瓷电容和一个 47uF 的电解电容。

The ripple is measured in an ambient temperature of 25℃ with standard input voltage, full load at output, 20MHz bandwidth for the oscilloscope with the measured object connected in parallel with a ceramic capacitor of 0.1uF and a electrolytic capacitor of 47uF.

2.5 开机延迟 Turn-on Delay

输入电压为 115VAC 时，电源开机时间＜2 秒。

With input voltage at 115VAC the Turn-on Delay time ＜2 seconds

2.6 断电维持时间 Hold-up Time

输入电压 100V，输出功率最大断电时，输出电压维持时间大于 6 毫秒。
With the input voltage at 100V, the output voltage shall be maintained for more than 6 MS after power off at the maximum output power.

2.7 上升时间 Rise Time

输出最大负载时，电压从 10%到 90%的上升时间小于 40 毫秒。
With maximum load at output, voltage rise time from 10% to 90% shall be less than 40 MS.

2.8 过载 Overload

输入电压在 100~240VAC，温度 25℃时，电源过流 2.9A 能工作 20 秒。

With the input voltage between 100~240VAC and the temperature at 25°C, the power supply over current at 2.9A can work for 20 S.

2.9 动态负载 Dynamic Load

负载 0%-50%和 50%-100%，斜率 0.5A/ Us，周期 10MS。输出电压在 52.77V~56.03V 之间。

With load at 0%-50% and 50%-100%, slope of 0.5A/Us, and period of 10MS, the output voltage is in the range of 52.77V~56.03V.

2.10 输出调整率 Output Regulation

电压 Voltage	负载 Load (A)	公差范围 Tolerance Range	调整率 Regulation Rate	
	正常 Normal	总调整率 Total Regulation	线性 Linear	负载 Load
±54.4V	0~2.68A	±3%	±1%	±3%

线性调整率的输入电压范围 90VAC-132VAC 或 185VAC-264VAC;

Linear Regulation input voltage shall be in the range of 90VAC-132VAC or 185VAC-264VAC

负载调整率是输入电压 115VAC 或 230VAC，空载到满载测量输出电压变化。

Load Regulation is the variation measured in the Output voltage from No Load to Full Load with input voltage at 115VAC or 230VAC.

3. 保护功能 Protection Function

3.1 过压保护 Over Voltage Protection

输出电压或者过压保护电压超过 108.8V，电源必须闭锁保护，可以通过关断 AC 电压≤5 秒复位正常输出。 When the output voltage or overvoltage protection voltage exceeds 108.8V, the power supply must be blocked and protected. Normal output can be resumed through reset by turning off the AC voltage ≤ 5 seconds.	☒
故障排除后，电源将自动恢复 After troubleshooting, the power supply will be automatically resumed.	☐

3.2 过流保护(＞5 秒) Over Current Protection (＞5 SECONDS)

过电流保护电流 2.9A，单次过流去除后电源自动恢复，两次或两次以上过流输出将闭锁，需关断交流电压 5 秒后恢复正常。（115VAC/60Hz 或 230VAC/50Hz）

Over Current Protection is in the range of 2.9A. After a single Over Current removal, the power supply resumes to normal operation automatically. Occurrences of Over Current twice or more in output would lead a power block. It is needed to turn off the AC voltage for 5 seconds to restore the normal operation. (115VAC/60Hz or 230VAC/50Hz)

3.3 短路 Short Circuit

输出端正负极短路，电源无损坏伤、无异味、无冒烟、无起火、无塑性变形、无过热。当故障排除后，电源自动恢复正常。

Under short circuit, no damage, no odor, no smoke, no fire, no plastic deformation, no excessive heat generation shall be detected. The power supply shall be automatically resumed after troubleshooting.

3.4 峰值负载模式 Peak Load Mode

输出时间：当产品表面温度低于 50℃时，

Output duration: When the product surface temperature is less than 50 ℃,

ON <2S OFF> 1MS，输出电流 RMS 值小于 5.5A，电源可以工作 10 次以上或 20S 以上，电源不损坏

ON <2S OFF> 1MS, with the output current RMS value less than 5.5A, the power supply can work more than 10 cycles or more than 20S without damage. ☐

3.4.1 短时间连续超过负载≥3 秒，输出将闭锁，需关断交流电压 5 秒后恢复正常。

With continuous overload duration ≥3 seconds in a short period, power output shall be blocked. It is needed to turn off the AC voltage for 5 seconds to restore the normal operation.

3.4.2 输入电压 230V / 50Hz，电源瞬时最大负载电流 A 持续输出在 1.5~3.6 秒或输出连续电流大于 4.15A，时间不能超过 5S

With input voltage at 230V/50Hz and instantaneous maximum load current at A, a continuous output period

shall be in the range of 1.5 ~ 3.6 S, or with a continuous output current greater than 4.15A for a duration less than 5S.

3.4.3 输入电压 115V / 60Hz，功率瞬时最大负载电流 A，或输出连续电流大于 4.15A，时间不能超过 5S

With input voltage at 115V / 60Hz and instantaneous maximum load current at A, or a continuous output current greater than 4.15A, the output period shall be less than 5S.

4. 环境条件 Environment (温度和湿度 Temperature and Humidity)

4.1:工作温度 Operating Temperature 0℃~40℃

4.2:工作湿度 Operating Humidity 20%~90% （非冷凝 Non-condensing）.

4.3:储存温度 Storage Temperature -20℃～80℃.

4.4:储存湿度 Storage Humidity 0%~95%. （非冷凝 Non-condensing）.

4.5: 防水测试 Waterproof Test ☐

4.5.1 参考标准：IP66 Reference standard:IP66

最大使用湿度为 98%，建议使用湿度小于 90%

Maximum operation humidity is 98%. It is recommended to operate in conditions under RH 90%.

4.5.2 测试方法 Test Method

浸入 10CM 水中，时间 10 分钟。取出水后擦拭表面水珠，测试电气性能，耐电压和绝缘电阻符合规格书要求。

Immerse in 10CM water for 10 minutes. After bringing out of the water, wipe water off the exterior. Test results of the electrical performance, withstand voltage and insulation resistance shall meet those in specification.

4.5.3 模拟试验方法 Simulation Test Method

抽真空试验：真空吸入压力 3Kg/F（相当水深度 30 米），时间 3S，无漏气现象。

Vacuum test: vacuum suction pressure 3Kg/F (equivalent to water depth of 30 meters) for 3S with no air leakage detected.

4.6: 跌落测试 Drop Test

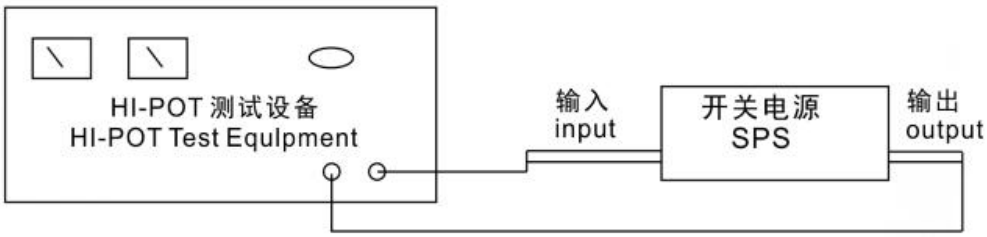
从 76 厘米高度往 13mm 厚木板或者混凝土地板上自由跌落，跌落 6 个面，每个方位跌落 1 次, 无机械损伤, 无电气异常。

From 76 cm height to a 13 mm thick wood board or concrete floor, free fall with dropping on 6 faces and once in each orientation, no mechanical damage and no electrical anomalies shall be detected.

5. 耐压 Withstand Voltage

5.1 介电耐压（HI-POT）Dielectric Withstand Voltage (HI-POT)

一类电源，输入对输出（公座地线接输出负极）1500VAC 5mA 3 秒 Power Supply of Class I, primary to secondary (AC input grounding connection with the DC output negative terminal) 1500VAC 5mA 3 S.	☒
一类电源，输入对输出（公座地线为浮地）3000VAC 5mA 3 秒 Power Supply of Class I, primary to secondary (with floating grounding at AC input) 3000VAC 5mA 3 S.	☐
二类电源，输入对输出 4000VAC 5mA 3 秒 Power Supply of Class II, primary to secondary 4000VAC 5mA 3 S.	☐



5.2 漏电流 Leakage Current

输入电压 240VAC / 50Hz 时，漏电流＜0.75 mA。

With input voltage at 240VAC/50Hz, the leakage current＜ 0.75 mA

5.3 绝缘电阻 Insulation Resistance

输入对输出电压 500VDC 测试 1 分钟，绝缘电阻＞30MΩ。

With 500VDC of input to output for 1 minute, the insulation resistance＞30MΩ

5.4 雷击浪涌 Lightning Surge

符合 IEC-61000-4-5 Level 3 标准，±2KV 无损伤。

It shall comply with IEC-61000-4-5 Level 3 requirements, no damage at ±2KV.

L-N 2KV/1.2*50Us 5 times No function error, 2KV/1.2*50Us 5 times No damage

5.5 电快速瞬变 Electric Fast Transients (EFT)

符合 IEC-61000-4-4 / 1995 3 级标准。

It shall comply with IEC-61000-4-4/1995，(EN 61000-4-4) Level 3 requirements

5.6 静电放电 Electrostatic Discharge (ESD)

该电源能够承受外壳周围任何点的静电放电测试，符合(EN 55024:1998+A1:2001+A2:2003,EN 61000-4-2) 标准要求

This power supply shall be capable of withstanding ESD test voltage at any point around the enclosure as specified in (EN 55024:1998+A1:2001+A2:2003, EN 61000-4-2)

±8KV 空气放电无损坏。

No damage for±8KV air discharge.

±4KV 接触放电无损坏

No damage for ±4KV contact discharge

5.7 电磁干扰 Electromagnetic Interference (EMI)

电源应符合以下标准：

FCC 第 15 部分：辐射和传导发射的 B 类。

EN55032：2015，辐射和传导发射的 B 类。

GB9254-2008，GB17625.1-2012

The power supply shall comply with:

FCC part 15: Class B for radiated and conducted emissions.

EN55032：2015 , Class B for radiated and conducted emissions.

GB9254-2008,GB17625.1-2012

6. 安全认证 Safety Certification

6.1 安全认证标准 Safety Certification Standards

电源应符合以下国际认证标准

The power supply shall comply with the following international regulatory standards

标志商标 Trademark	国家 Country	安全标准 Safety Standards		
CE	欧盟 Europe	☒ 宣布和 CE 标志 Declared & CE Mark		
UL/CUL	美/加 USA/ Canada	☒ UL 60950	☒ UL62368	☐ UL1310
GS	欧盟 Europe	☐ EN60950	☒ EN62368	☒ EN61558
CCC&CQC	中国 CHINA	☒ GB4943	☒ GB8898	☐ GB4706.1
PSE	日本 Japan	☐ J60950	☐ J60065	☐ J61558-1
SAA	澳洲 Australia	☐ EN60950	☒ EN60065	☒ EN61558
KC	韩国 Korea	☐ EN60950		
BS	英国 UK	☐ EN60950		
BIS	印度 India	☐ IS13252		
LPS	/	☐ IEC60950		

7. 可靠性 Reliability

7.1 平均间隔故障时间估算 MTBF (Mean Time Between Failures) Estimation

在 20 度，满载和额定输入电压条件下，能连续工作 5 万小时。

The estimated MTBF shall be 50K hours of continuous operation at 20℃ with maximum load and rated input voltage.

7.2 MTBF 验证 MTBF Verification/MTBF

可靠性验证是通过品管部门的寿命测试进行验证。

工作条件：40℃环境温度，输入电压（115VAC 或 230VAC），0-70％负载。

The MTBF shall be verified through life testing performed by factory Quality Department. The operating conditions are under 40℃ ambient temperature with the input voltage at (115VAC or 230VAC) and a load in the range of 0-70％ of the maximum.

7.3 老化 Burn-in Test

老化 24 小时,环境温度 40±5℃，输入电压 240VAC，满载开关循环测试。

Burn-in for 24 hours in ambient temperature 40±5℃ with input voltage of 240VAC for ON/OFF cycling full load

8. 冷却方法 Cooling Methods

风扇冷却 By fan force air cooling	☐
自然冷却 By natural air cooling	☒

9. 样品测试记录 Sample Test Record

9.1 电气测试 Electrical Test

No.	测试项目 Test Item	测试条件 Test condition	标准参数 Standard SPEC	样品测试指标 Test value per sample reading			单位 Unit	结果 Result
				1#	2#	3#		通过/未通过 Pass/Fail
1	输出电压 Output voltage	低压空载 Vin 100VAC/60Hz No Load	54.4V±3%	54.65	54.25	54.49	V	通过 Pass
2	输出电压 Output voltage	低压满载 Vin 100VAC/60Hz Full Load	54.4V±3%	54.43	54.02	54.25	V	通过 Pass
3	效率（满载）Efficiency (full load)	低压满载 Vin 115VAC/60Hz Full Load	89.0% min.	91.13	90.90	90.90	%	通过 Pass
4	平均效率 Average Efficiency	低压满载 Vin 115VAC/60Hz Full Load	88.00% min.	91.81	91.59	91.66	%	通过 Pass
	效率 Efficiency	低压 10%负载 Vin 115VAC/60Hz 10% of Rated Load	79.00% min.	91.21	91.23	91.53	%	通过 Pass
5	纹波与噪音 Ripple & Noise	低压满载 Vin 100VAC/60Hz Full Current	300 Mv p-p max.	122	122	119	mV	通过 Pass
6	过流保护 OCP(＞5S)	低压满载 Vin 115VAC/60Hz Full Load	>2.9A	4.2	4.3	4.3	A	通过 Pass
7	大过流 PL (1.5~3.6S)	低压满载 Vin 115VAC/60Hz Full Load	>A（>V）					

8	**待机功率 Standby Power**	低压空载 Vin 115VAC/60Hz No Load	<0.15W	0.11	0.10	0.11	W	通过 Pass
9	**输出电压 Output Voltage**	高压空载 Vin 240VAC/50Hz No Load	54.4V±3%	54.65	54.26	54.48	V	通过 Pass
10	**输出电压 Output Voltage**	高压满载 Vin 240VAC/50Hz Full Load	54.4V±3%	54.42	54.02	54.25	V	通过 Pass
11	**Efficiency(full load) 效率（满载）**	高压满载 Vin 230VAC/50Hz Full Load	91.0% min.	92.89	92.66	92.67	%	通过 Pass
12	**平均效率 Average Efficiency**	高压满载 Vin 230VAC/50Hz Full Load	89.00% min.	92.68	92.58	92.47	%	通过 Pass
	效率 Efficiency	高压 10%负载 Vin 230VAC/50Hz 10% Rated Load	79.00% min.	91.55	91.68	91.18	%	通过 Pass
13	**纹波与噪音 Ripple & Noise**	高压满载 Vin 240VAC/50Hz Full Load	300Mv p-p max.	109	108	104	mV	通过 Pass
14	**过流保护 OCP(＞5S)**	高压满载 Vin 240VAC/50Hz Full Load	>2.9A	4.5	4.5	4.5	A	通过 Pass
15	**大过流 PLM(1.5~3.6S)**	高压满载 Vin 230VAC/50Hz Full Load	>A（>V）					
16	**待机功率 Standby Power**	高压空载 Vin 230VAC/50Hz Io=0	<0.15W	0.13	0.12	0.14	W	通过 Pass
17	**老化 Burn-in**	高压带载 24 小时 Input 220VAC full load 24hours		OK	OK	OK	-	通过 Pass

9.2 安全测试 Safety Test

1	耐压测试 Hi-pot Test	1.5Kvac 交流 5mA 3 秒输入和输出测试 1.5KVac 5mA **3 Second** Between input and output test	通过 Pass	通过 Pass	通过 Pass	-	通过 Pass
2	绝缘阻抗 Insulation Resistance	500VDC / 10mA 3 秒后，绝缘电阻应不小于 30M 欧姆 The insulation resistance shall not be less than 30M ohms after application of 500VDC/10mA for 3 Seconds	通过 Pass	通过 Pass	通过 Pass	-	通过 Pass
3	跌落测试 Drop test	高度：760mm 三个面（每个平面一次） Heigh:760mm Three*faces (once on each surface)	OK	OK	OK	-	通过 Pass
备注 Remark		带灯带 GVE With LED,with GVE					

核准 Approved	**审核 Checked**	**测试 Tested**

10. 结构参数 Mechanical Specification

10.1: 净重 Net Weight (g) : 494 g/pcs

10.2: 外壳尺寸 External Dimension: 161*68.4*32.5 mm

10.3: 外壳颜色 External Color: 黑色 Black

10.4: DC 线 DC Cable/DC: 18AWG 2468 L1200mm±15mm Tuning fork（音叉）in+/out-,SR7.8*6.8（total length）

18 号线 2468 长 1200 毫米正负 15 毫米,音叉,内正外负,卡口 7.8*6.8（总长）

10.5: DC 插头尺寸 DC Connector Dimension:

长度 LD = 10.0 mm

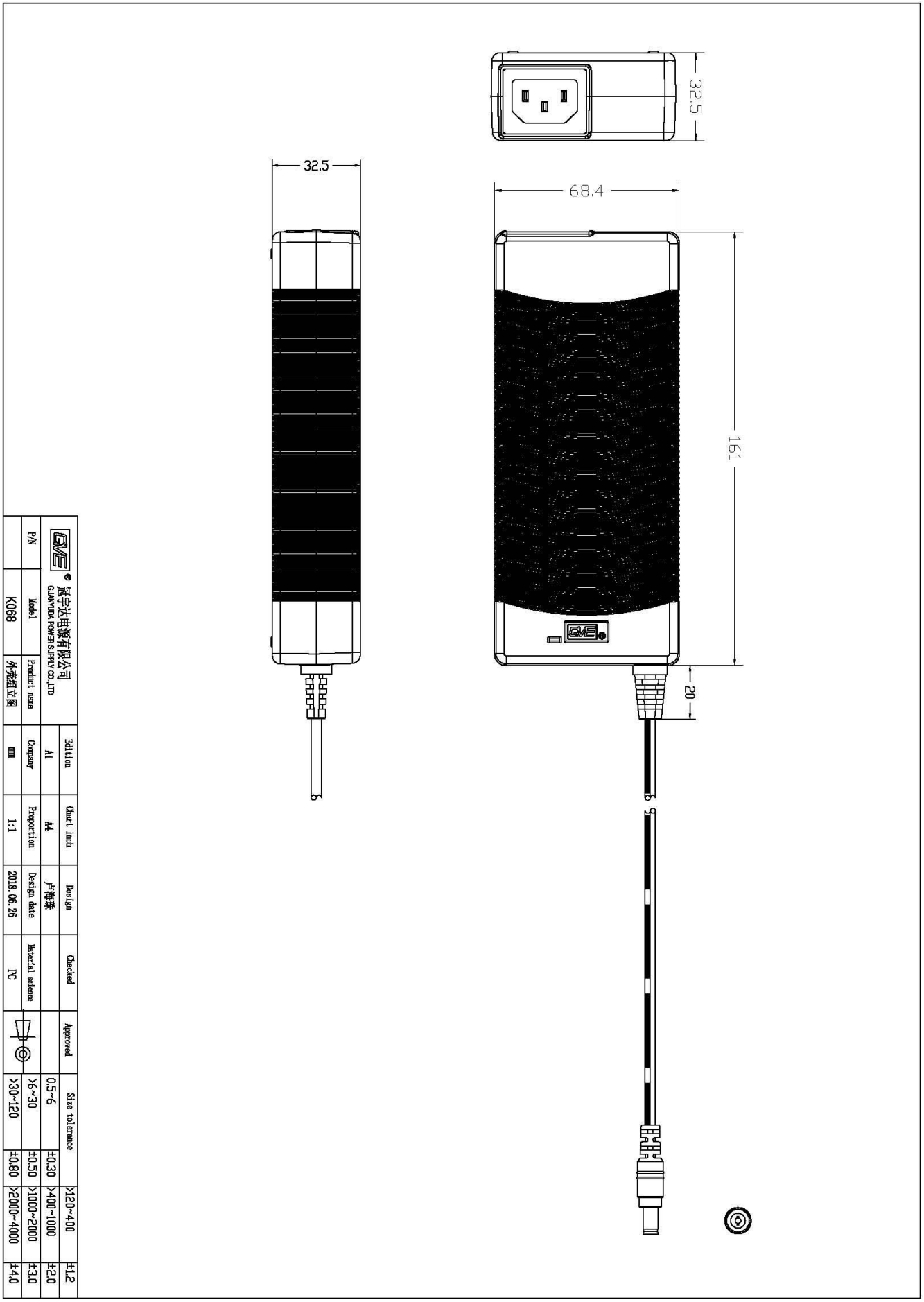
外径 OD = 5.5 mm

内径 ID = 2.5 mm

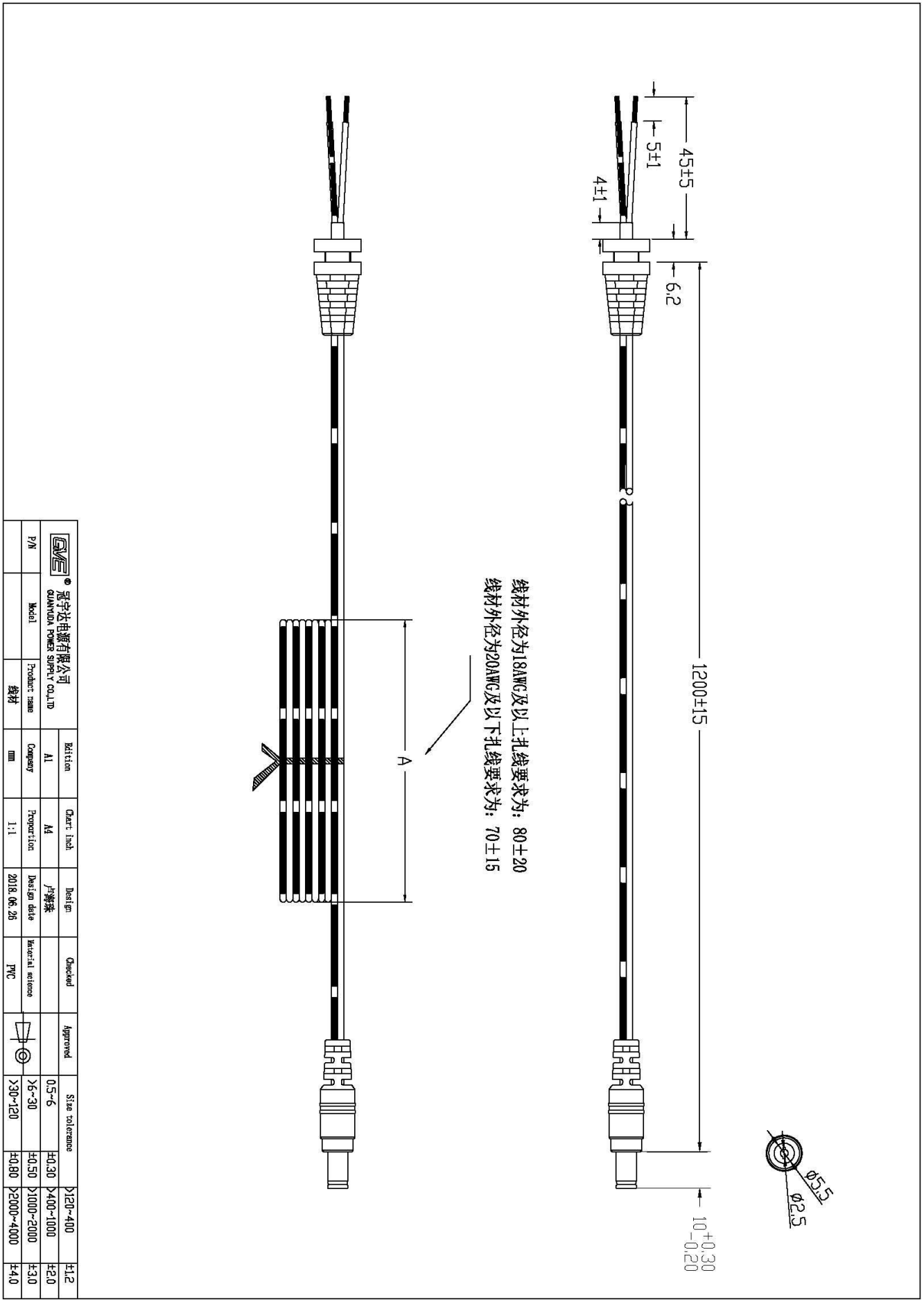
10.6: AC 线 AC Cable/AC: C14 input pedestal.

品字座.

11. 尺寸 Dimension



	P/N	冠宇达电源有限公司 GUANYUDA POWER SUPPLY CO.,LTD		Edition	A1							
K068	Model	Product name	外壳框立图	Company	mm	Chart inch	A4	Proportion	1:1	Design	卢海荣	Design date	2018.06.26	Checked		Material scheme	PC	Approved		Size tolerance	0.5~6	±0.30	>6~30	±0.50	>30~120	±0.80	>120~400	±1.2	>400~1000	±2.0	>1000~2000	±3.0	>2000~4000	±4.0



		冠宇达电源有限公司 GUANYUDA POWER SUPPLY CO.,LTD		Edition	A1	Design		Approved	Size tolerance		
	P/N	Model	Product name	线材	Company	mm	Chart inch	A4	Design	Checked		0.5~6	±0.30	>120~400	±1.2
					Proportion	1:1	Design date	2018.06.26	Material science	PVC		>6~30	±0.50	>400~1000	±2.0
												>30~120	±0.80	>1000~2000	±3.0
														>2000~4000	±4.0

激光打标

料号:GM152544026 80F0-D01

GVE AC/DC Adapter (电源适配器)

MODEL (型号) :GM152-5440268-F

INPUT (输入) :100-240V~50/60Hz 2.5A

OUTPUT (输出) :54.4V ⎓ 2.68A

VI EFFICIENCY LEVEL

TÜV Rheinland ZERTIFIZIERT www.tuv.com ID 0000054228

GS

c UL us LISTED E321192 37GD

CAUTION/ACHTUNG/警告:

CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN

(请不要打开,小心触电)

Nur fur innenraume geeignet

MADE IN CHINA/中国制造

FOSHAN SHUNDE GUANYUDA POWER SUPPLY CO.,LTD

佛山市顺德区冠宇达电源有限公司

No.1 of South,Jiefang East Road Xichong, Lunjiao,Shunde Foshan,Guangdong

广东省佛山市顺德区伦教素涌解放东路南一号

125.20 mm

51.20 mm

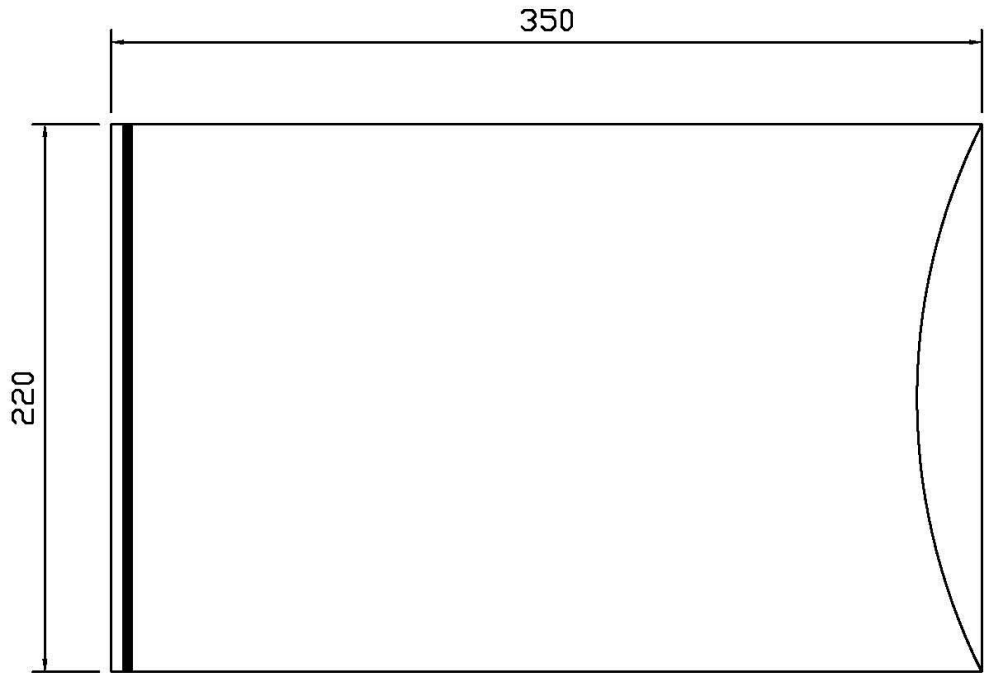
3*R1.2

1.80 mm

1.80 mm

1:1

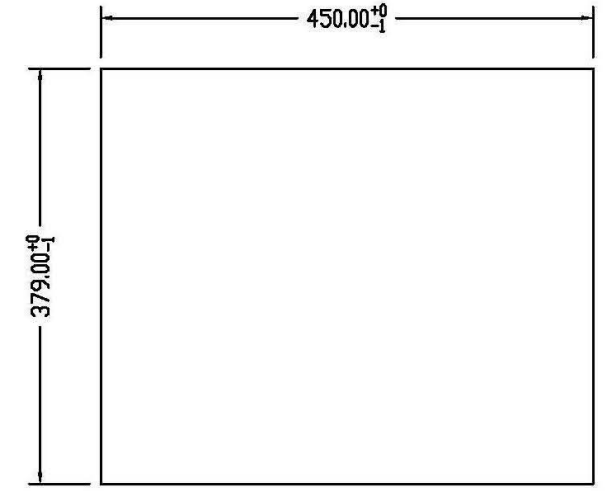
冠宇达电源有限公司 GUANYUDA POWER SUPPLY CO.,LTD		Edition	Chart inch	Design	Checked	Approved	Size tolerance	
P/N	Model	A	A4	卢海珠			±0.05	±0.10
		Product name	Company	Proportion	Design date	Material science		±0.15	±0.20
		Lable	mm	1:1	2019.11.27			±0.25	±0.30



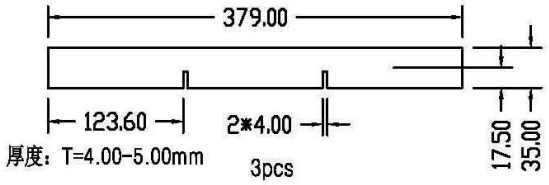
350*220mm

Color: Transparent

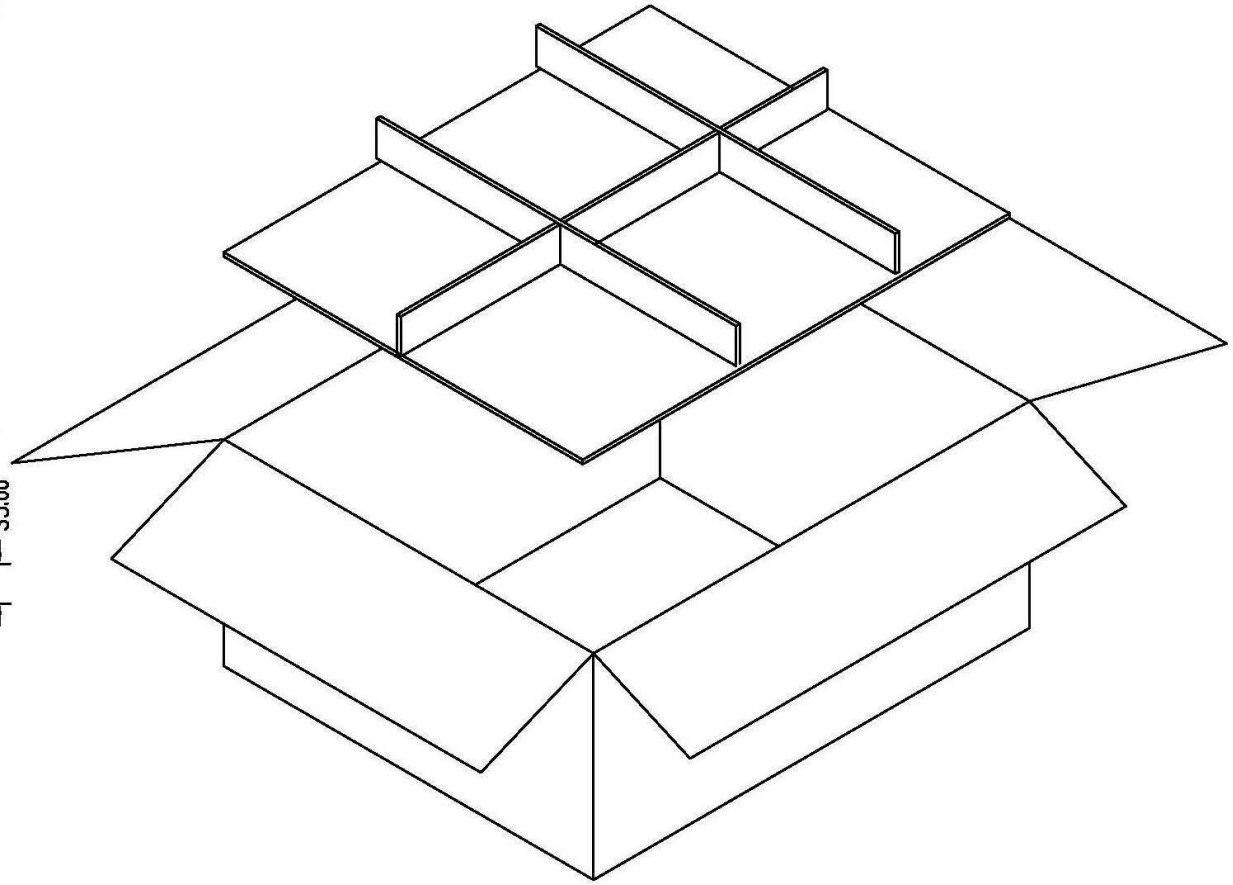
冠宇达电源有限公司 GUANYUDA POWER SUPPLY CO.,LTD			Edition	Chart inch	Design	Checked	Approved	Size tolerance		
			A	A4	dengshenhu			±0.05	±0.10	✓
P/N	Model	Product name	Company	Proportion	Design date	Material science		±0.15	±0.20	
	350*220	PE bag	mm	1:1	2012.02.01			±0.25	±0.30	



厚度：T=4.00-5.00mm



厚度：T=4.00-5.00mm



外箱尺寸：460*390*198mm

Technical requirements of:
A layer of 6Pcs,a total of 3 layer,18pcs

冠宇达电源有限公司			版本号	图寸	设计	校对	批准	尺寸公差
			A	A4				±0.05 ±0.10 ✓
图号	型号	产品名称	单位	比例	设计日期	材料		±0.15 ±0.20
		刀卡与外箱	mm	1:1				±0.25 ±0.30