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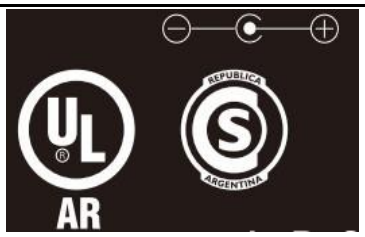
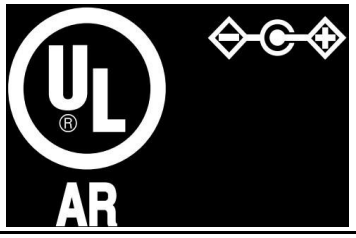
1. Revision History

NO.	Date	Revision History	Rev.	Page
1	Mar.21.2017	~1st sample	A0	
2	Jul.19.2017	Update label drawing	A1	
3	Jul.27.2017	Add CUSTOMER CODE_NO. and Barcode Label	A2	
4	Sep.11.2018	Update packing	A3	
5	Oct.10.2025	Update label(Update UL-IRAM mark and Linear symbol)	A4	

CHANGE ITEM			
Before (Rev.)	**After (Rev.)**	**Change Reason**	**Remark**
		**Honor Request**	**A4**

2. Electrical Specification

2-1.General Spec

Product Description

: This Specification defines the input, output, performance characteristics, environment, noise and safety requirements for power supply.

Parameter Specification

: Unless specification otherwise, all parameters must meet over the limit of temperature load, and input voltage.

: All measurements shall be taken at 25℃±5℃ ambient unless otherwise noted.

2-2. Electrical Requirements

2-2-1.Input Voltage

2-2-1-1.Input Voltages

Normal voltage: 100 to 240VACrms

Voltage range: 90 to 264VACrms

2-2-1-2.Inrush Current(Cold Start)

Inrush current should be lower than 50/80 A under cold start and 1st half cycle of 115/230 Vrms input voltage.

2-2-1-3.Input Fuse

The input fuse shall not blow up.

2-2-1-4.Input Current

≤0.7Arms at 100 to 240Vac input and full load.

2-2-1-5.Frequency

Normal frequency :50Hz - 60Hz

Frequency range : 47Hz - 63 Hz

2-2-1-6.Efficiency

The average efficiency shall not be less than 86.20%(Expressions:[0.071*Ln(Po)-0.0014*Po+0.67])

-. According to DoE VI.

-. Both 115Vac(60Hz) and 230Vac(50Hz) input voltage condition.

-. Average (25%+50%+75%+100%)/4

-. The DC power supply shall be operated at 100% of nameplate current output for at least 30 minutes immediately prior to conducting

2-2-1-7.Primary Over Current Protection

An adequate internal fuse on the AC input line shall be provided.

2-2-1-8.Power Loss (Minimum Load Power Consumption)

CONDITION		RESULT(SPEC)
INPUT VOLTAGE	230VAC	0.10W MAX (INPUT POWER)
OUTPUT VOLTAGE	+12 V / No Load	AT 230Vac/50Hz

2-2-1-9.Input Configuration

2 Conductors (Live, Neutral)

2-2-2.Output Requirements

2-2-2-1.Maximum Output Power: 24 Watts

2-2-2-2.Output Voltage and Current

OUTPUT VOLTAGE	MINIMUM VOLTAGE	MAXIMUM VOLTAGE	OUTPUT CURRENT	INPUT VOLTAGE
+12.00VDC	+11.64VDC	+12.84VDC	0.0A~ 2.0 A	100Vac-240Vac

table 1

2-2-2-3.Output Load Regulation

The output voltage regulation shall meet above table 1, including the effects of line voltage variations, load current, ripple and noise, and the AC component of the load current . The effect of dynamic load changes is not included in this limit.

2-2-2-4.Ripple and Noise

A	B
12Vdc	0.10Vp-p(100mV)

Column A : Output Voltage.

Column B: Switching Ripple and Noise

Measured methods:

1. Performed by 20M Hz bandwidth in oscilloscope.
2. Applied 0.1uF high frequency capacitor and 47uF electrolytic capacitor across the end of DC cable.
3. Measured at the end of DC cable.
4. Tested at 115Vac(60HZ)and 230Vac(50HZ)

2-2-2-5.Line Regulation ± 3 %（Output current：2.0A load）

Line Regulation=ΔV/Vnor x 100%

ΔV:Vmax-Vnor or Vmin-Vnor

Note: Vmax:The maximum output voltage when the input voltage changes;

Vmin:The Minimum output voltage when the input voltage changes;

Vnor:Rated output voltage.

2-2-2-6.Hold Up Time

10ms min.@115VAC input and full load

20ms min.@230VAC input and full load

2-2-2-7.Turn On Delay Time

5s max@ 100Vac to 240Vac input and output Max.Load.

2-2-2-8.Rise Time

DC output rise time from 10% to 90% of output voltage shall be less than

30ms @100Vac to 240Vac input and output Max.Load.

2-2-2-9.Overshoot

The output overshoot at turn-on shall not exceed +10%(V) of output voltage at no load and full load connected.

2-2-2-10.Dynamic Load Response

Condition:load step from 20% to 80% to 20%,R/S: 0.10A/uS,

Transient Response Recovery Time :≤ 30ms Result:output voltage±10%

2-3. Protection Requirements

2-3-1.Over Current Protection

≥3.3A @input 100~240Vac 50/60 Hz

2-3-2.Peak Current

≥3.3A hold up time 5s min@input voltage：100-240Vac，output voltage：11.4Vac-12.84Vac

2-3-3.Short Circuit Protection

The input power shall decrease when the DC output "+" and "-" short, the power supply shall no damage,and shall be self-recovery when the fault condition is removed.

2-3-4.Over Voltage Protection

The power supply shall protection when the output over voltage,the power supply shall no damage.

2-4. Safety and EMC Requirements

2-4-1.Earth Leakage Current.

0.25mA Max (264V, 50Hz)

2-4-2.Hi-Pot test

1).Hi-Pot test (Dielectric withstand voltage)-CLASS II ☑

: leakage(cutoff) current 10mA

: Safety Standard Condition:

Primary To Secondary : 3000Vac ,1 minute for type test

: Mass Production Condition:

Primary To Secondary : 3600Vac ,keeping 2 seconds for production

* Test methods:Input test voltage beginning from zero to 3600Vac in 0.5s.We move plug after discharge display 0V.

* Test point : Primary Live and Natural Short ↔ Secondary

2).Hi-Pot test (Dielectric withstand voltage)-CLASS I ☐

: leakage(cutoff) current 10mA

: Safety Standard Condition:

Primary To GND : 1500Vac ,1 minute for type test

Primary To Secondary : 3000Vac ,1 minute for type test

: Mass Production Condition:

Primary To GND : 1800Vac ,keeping 2 seconds for production

Primary To Secondary : 3600Vac ,keeping 2 seconds for production

* Test methods:Input test voltage beginning from zero to 3600Vac in 0.5s.We move plug after discharge display 0V.

* Test point : Primary Live and Natural Short ↔ Ground

2-4-3.Insulation Resistance

Insulation resistance shall be more than 10 MΩ at 500Vdc between primary live, primary neutral and secondary.

2-4-4.RFI/EMI/EMC Standards

The adapter shall comply with a following RFI/EMI standards when tested in an system configuration.

2-4-5.EMS Standards

2-4-5-1.EN61000-4-2(IEC61000-4-2:2001 IEC801-2):Electrostatic Discharge ESD

Electrostatic Discharge:±8KV(Air) ±4KV(Contact)

2-4-5-2.EN61000-4-3(IEC61000-4-3:2002 IEC801-3):Radiated Immunity RS

Radiated Susceptibility: 3V/m

2-4-5-3.EN61000-4-4(IEC61000-4-4:1995+A1:2000+ A2:2001 IEC801-4): EFT/AC Line noise.

Transient Test: ±1KV(EFT) ±2KV(AC Line noise)

2-4-5-4.EN61000-4-6(IEC61000-4-6:1996+A1:2000)Conducted Radio Frequency

Injected Current Susceptibility: 3Vrms

2-4-5-5.Lightning Surge

The power supply must satisfy Table's Lightning Surge Spec.

Products	Test Voltage	Test Point & Test Mode	Output Load
Adapter	± 2 KV	Line to Line : C-Mode	Rated Load
	± 4 KV	Line to Gnd : CR-Mode	

Measured methods:

a. Environment Requirements：temperature :15～35℃; humidity :10%～75%RH;

b. Surge voltage is applied to the phase: 0° 90° 180° 270°;

c. Surge voltage is applied: for each polarity voltage of each repeated 5 times, a phase done;

10 times,each applied voltage interval of 60 seconds.

2-4-6.Safety Standards

The adapter shall be certified with the following safety standards:

	Country	Certified Status	Standard

2-4-7.EMI: 3dB margin(ClassB)

2-5. Reliability Requirement

2-5-1.Mean Time Between Failures (MTBF)

Output Voltage	Min Voltage	Max Voltage	Current	MTBF	Load Condition
+12.0Vdc	+11.64Vdc (-3%)	+12.84Vdc (+7%)	2.0A	＞50,000 Hr	100%

*Standard：TELCORDIA SR-332 issue 02 (2006)

*Environment temperature：25℃

2-5-2.E-cap Lifetime

The life estimation of aluminum capacitor must achieve 26280 hours at 25℃.

Standard: $\text{Life Time}=Lr * 2^{(To-Tx)/10} * 2^{(\triangle To-\triangle T)/5}$

$(\triangle To-\triangle T)/5=1-[Ia/(Is*Ff*TF)]^2$

Note-3 CE Capacitor Life time

Lr : Capacitor Life Spec

To : Capacitor Temp Spec

Tx : Capacitor case Temp

ΔT : Capacitor Self Heat

ΔTo: Self Heat Coefficient (85℃ =10, 105℃ = 5)

Ia : Measured Ripple Current

Is : Ripple Current spec

Ff : Frequency Factor

Tf : Temperature Factor

2-5-3.Drop Test

Unit shall survive drops on all 6 faces from a height of 1m onto hard wood (Total 1 times/face)

No surface crack, function are normal, can be passed dielectric strength and insulation resistance test.

Test bench requirements: 13mm thick hard wood glued in the middle of 19mm-20mm thick plywoods

2-5-4.Random Vibration Test (non-operating)

Vibrating Amplitude :1.5mm(Max.) ;Frequency range: from 10Hz to 55Hz, Constantime:10-55-10Hz (1 minute); Direction: vibration X, Y and Z-axis, at least 30 min/axis. Normal performance after test condition is removed.

2-5-5.Hearing Noise

The noise generated by the adapter supplied under 100-240Vac of no load and full load shall be lower than 30dBA,measure 5cm from the nameplate.

2-5-6.Hot Burn-In

Condition		Result(Spec)
Input Voltage	100Vac / 240Vac	NO Defect, Normal Operating
Output Current	80%~100% load	
Temperature	40℃ ± 5℃	
Test Time	4HR ± 1HR	

2-6.Environment Requirements

2-6-1.Operating Temperature

→ -10 ℃ ~ 55℃ (-20℃ can be start-up)

2-6-2.Operating Humidity

→ 10 % ~ 90% RH (Condensation : NOT REQUIRED)

2-6-3.Storage Temperature

→ -20℃ ～ 80℃

2-6-4.Storage Humidity

→ 5 % ～ 95 % RH (Condensation : NOT REQUIRED)

2-6-5.Operation Altitude

→0- 5000m

2-7. Mechanical Features

When the internal components of the wire DC head contain IC, resistor, capacitor, diode, PCB and so on, it needs to be tested.

2-7-1.Physical Size(Unit:mm): 86(L)* 37.5(W)* 30(H)

2-7-2.AC Input Connector：Argentina PLUG

2-7-3.Output Plug

DC Plug: straight Φ5.5*Φ2.1*10mm

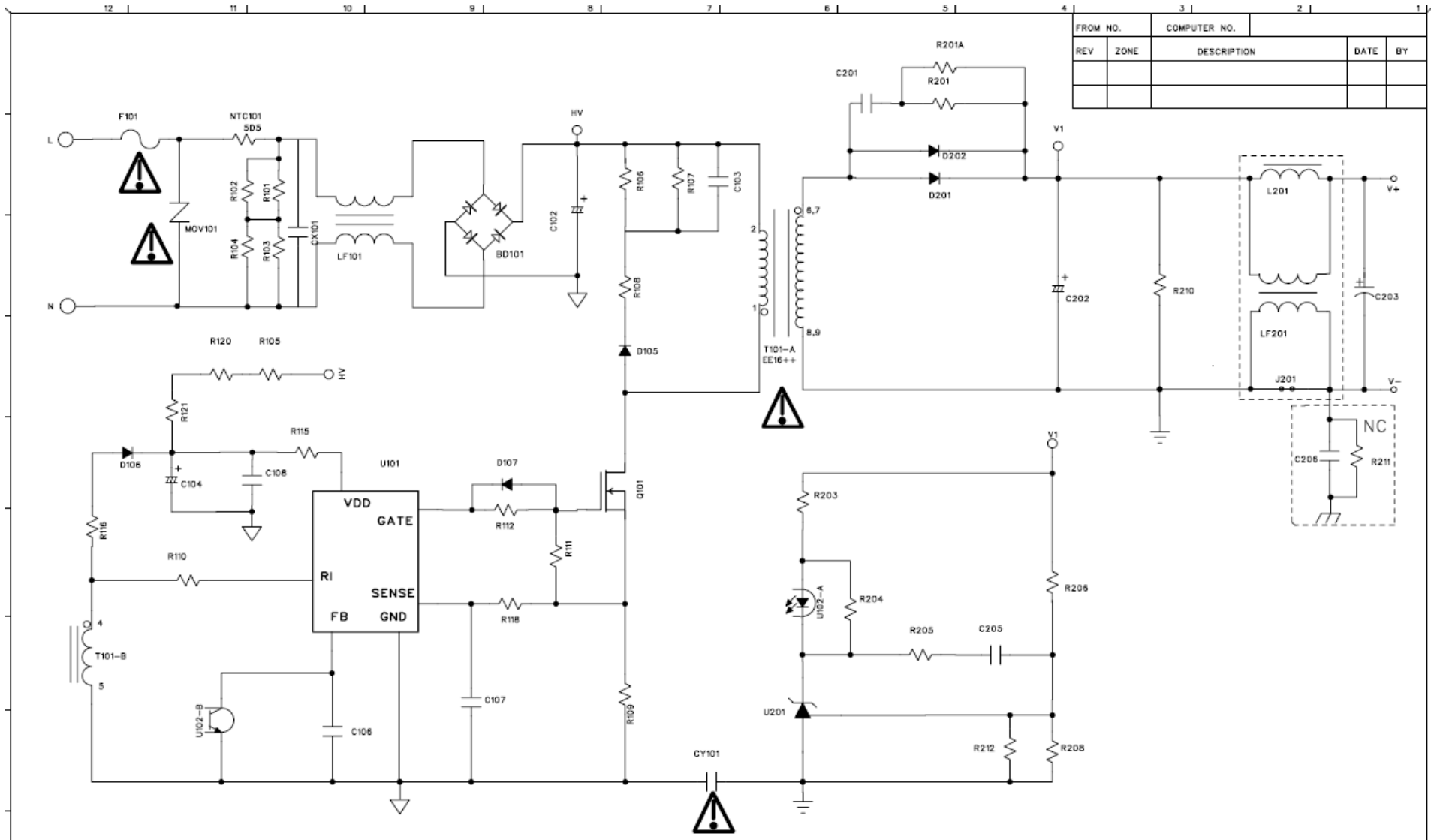
DC Cable: 22AWG 2468 1.5M BLACK

2-7-4.LED Light: NO

2-7-5.Weight : T.B.D

2-7-6.Case Color: BLACK

3. Circuit Drawing



FROM NO.		COMPUTER NO.		
REV	ZONE	DESCRIPTION	DATE	BY

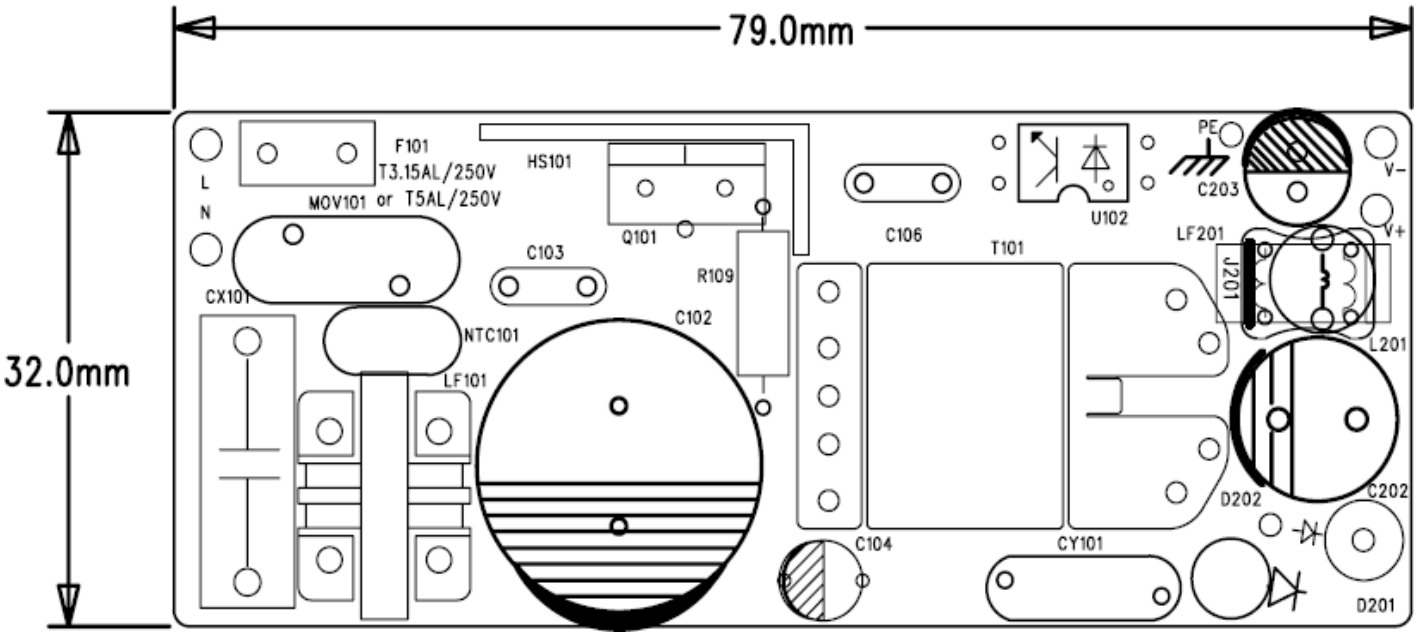
	DEPARTMENT	APPD.	CKD.	PART NAME	REV
SHENZHEN HONOR ELECTRONIC CO.LTD.				SCH	A/0
	R&D	H L Q		DWG BY / DATE	REV
MODEL: ADS-26FSG-12 PAGE 1 OF 1				L L Y / 2015/9/18	A/0

FO-KF04-03 A/0

4. PCB Drawing

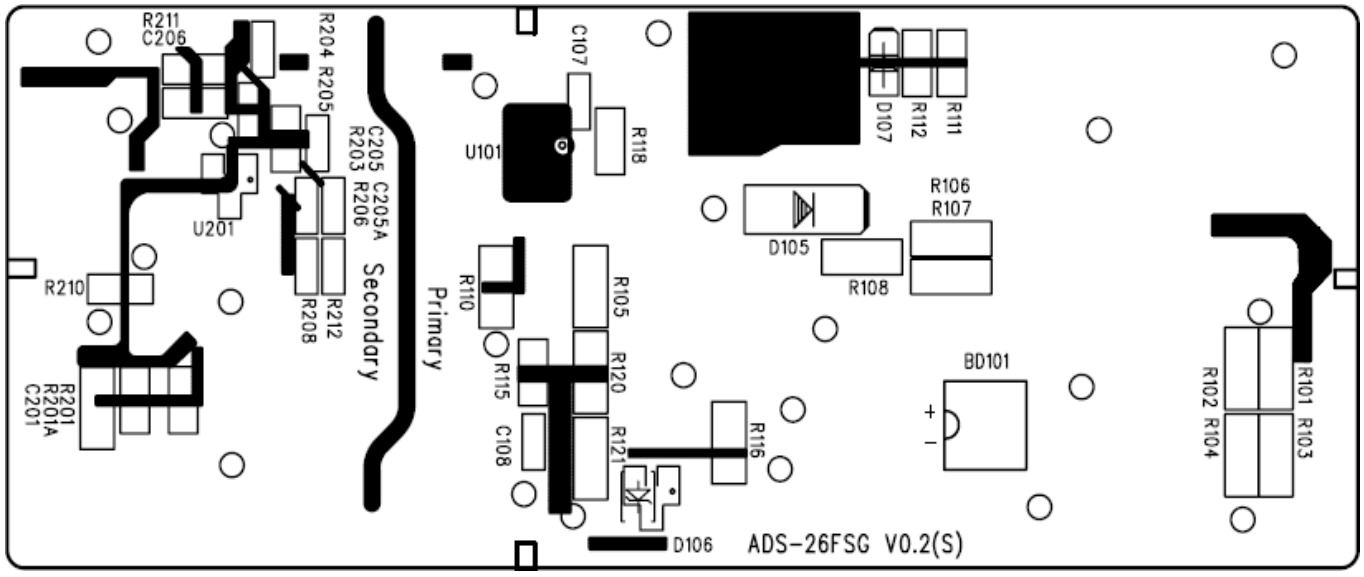
TOPSILK

Pictures as below just for reference,according with the latest PCB edition.



BOTTSILK

Pictures as below just for reference,according with the latest PCB edition.

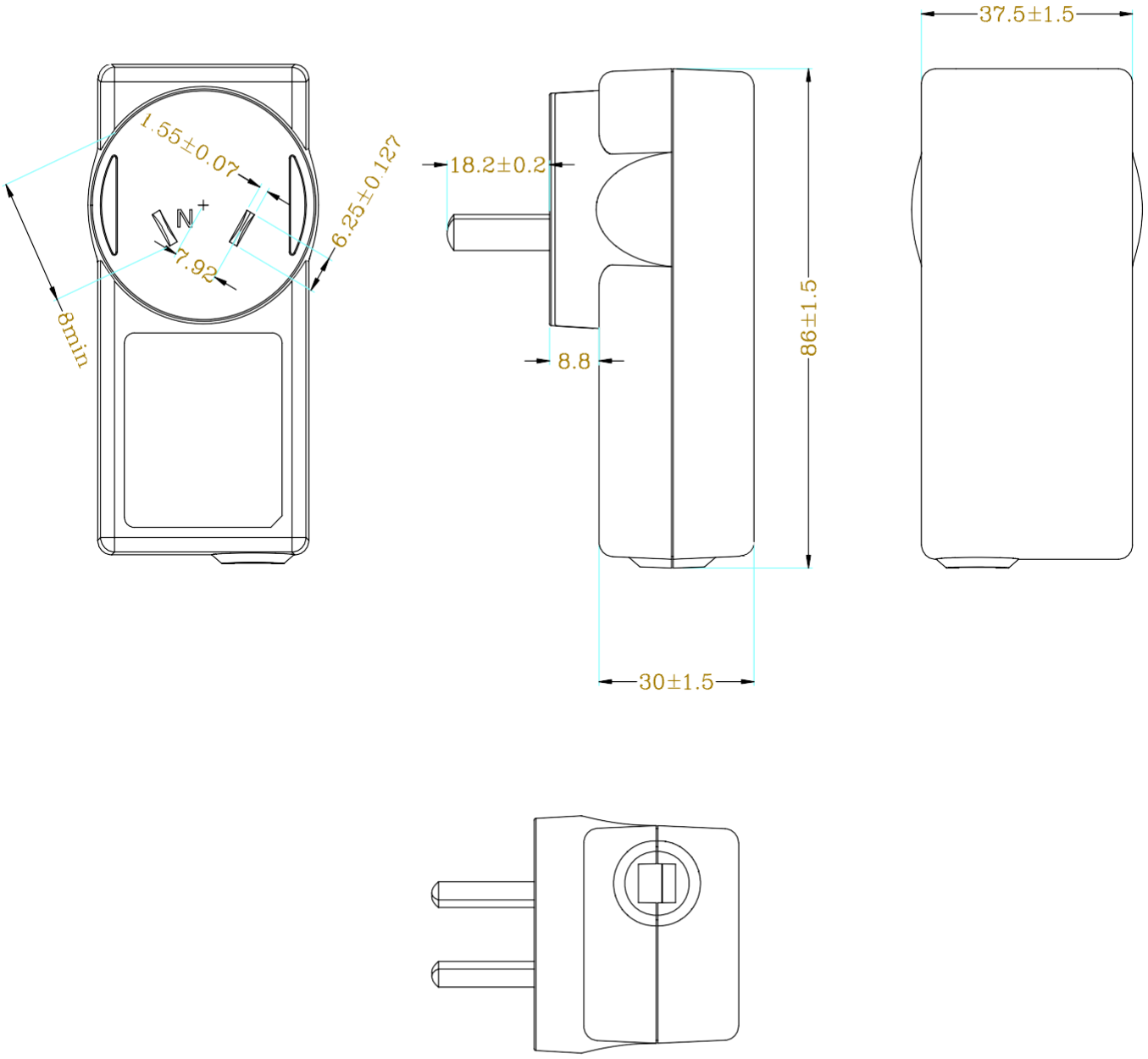


5. Mechanical Specification

5-1. Case Drawing
5-2. Cable Drawing
5-3. Label Drawing
5-4. Barcode Label
5-5. Packing Drawing

5-1. Case Drawing

Unit: mm

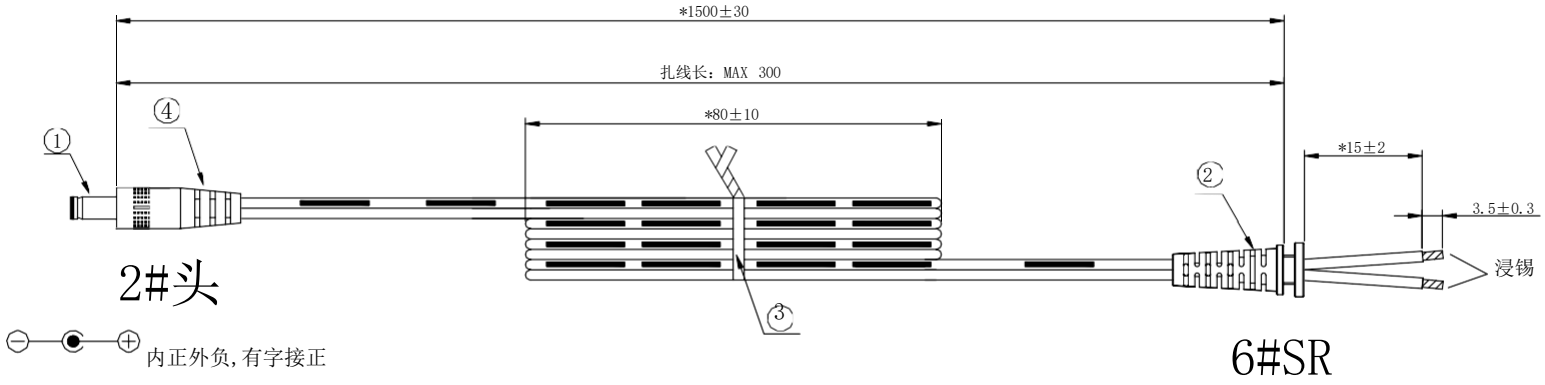


RevNO	Revision note	Date	Signature	Checked	ECN NO.

线材摇摆测试要求：

线　型	摇摆频率	摇摆角度	吊　重	吊　距	次　数
22AWG	45次/分	120°	250±1g	300mm	1500次

	料号	供应商
UL2468 22AWG (17/0.16AS)*2F黑/黑印白 低毒 黑线(REACH)		



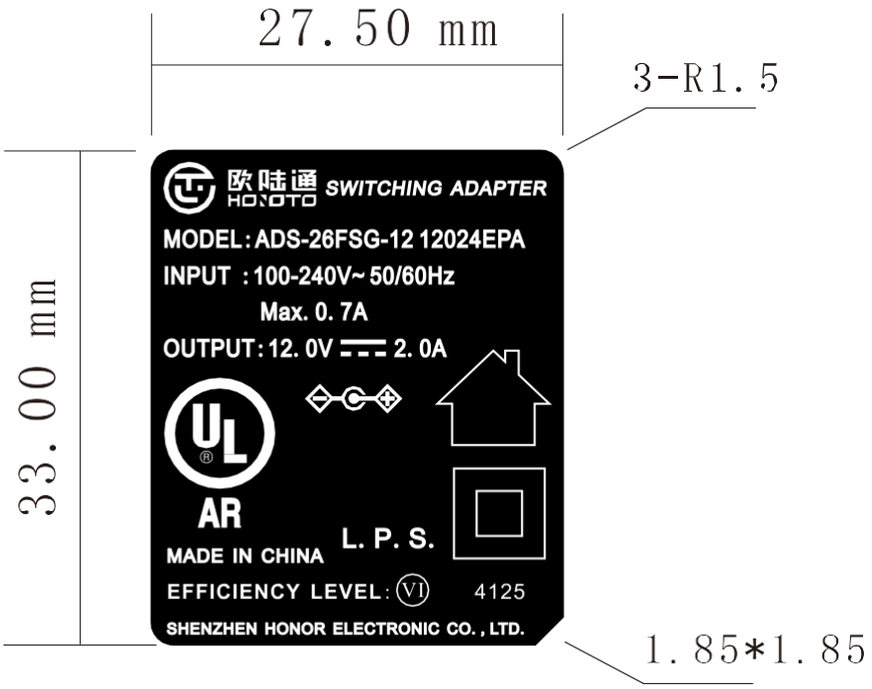
技术要求：
一、拉力试验要求：1、SR、DC头和磁环与线身拉力≥5KG（1分钟），位移≤2MM；
　　2、整条线拉力≥10KG(1分钟无断芯和延伸率≤总长的10%；
二、外观要求：1、线材外皮，每米不能超过3个小凸点；
　　2、线材表面不能有破损、压伤、脏污等外观不良；
　　3、SR/DC头表面不能有变形、缩水、披锋、气纹、缺胶等不良；
　　4、五金DC头不能有氧化、刮伤等不良；
　　5、线头浸锡需完全；
　　6、SR、DC头尾部和磁环两侧不能有压线现象；
三、DC头插拔力要求：5000次，范围0.3-3KG，速度15-25次/分钟.
四、尺寸检验要求：“*”为重点管控尺寸.
五、所有物料均符合RoHS、REACH要求.
六、线被要求参考欧陆通《DC线线被要求标准》执行，文件编号;SIP-PZ128.

序号	品　名	规　格　描　述
4	胶　料	5P PVC黑色低毒 (REACH)
3	扎　带	单面黑色PET无芯W　L=120mm（环保）
2	胶　料	65P PVC黑色低毒 (REACH)
1	插　头	*Ø5.5XØ2.1XL10±0.3 有沟槽有音叉内缩1.0　铜镀镍 黑色绝缘环

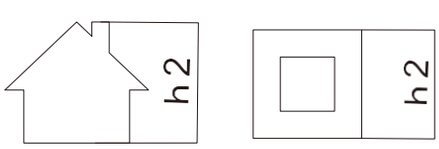
SHENZHEN HONOR ELECTRONIC CO.,LTD

Unit: mm Dim Tolerances: 0~1: ±0.1 ~5: ±0.2 ~15: ±0.3 ~25: ±0.5 25~: ±1.0 Angle: ±0.5°	Model: ADS-26FSG			Part Name	输出线
	Modification	Name	Date	Part NO.	
	Designed by	王泽豪	22.10.08	DWG NO.	
	Checked by				
	Approved by			Rev A/0	Scale

5-2. Cable Drawing



1 : 1



h2＞5mm，长宽按比例缩放

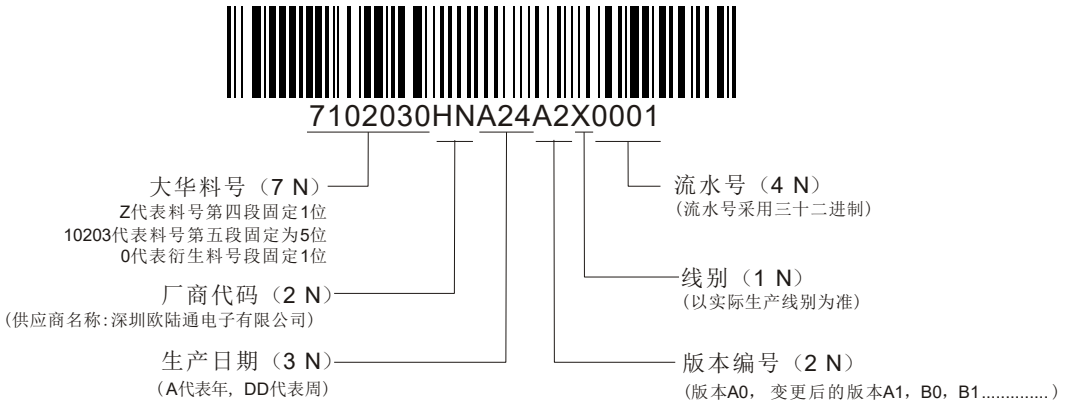
4125
└日期码，随着周期变化
“41”表示生产周，“25”表示生产年

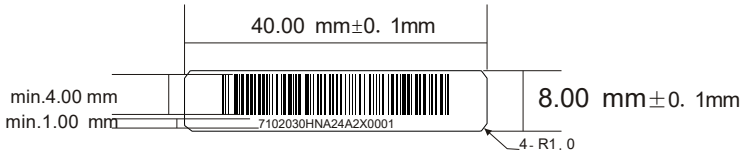
Note:
1:material quality: 100# PET底格纹+光膜（Be resistant to alcohol smear, without the word out, fuzzy, scratching phenomenon ）
2:black bottom and white words,clearly
3.one side with glue and stick well
4.temperature-resistant of more than 80 degree
5.straight of sarap edge , without burr, colour and letterform refer to the latest sample。

TOLERANCES UNLESS NOTED OTHER WISE	DESIGNER	梁丽娟	2025.10.09	DRAWING NAME	LABEL, DESIGNATION	
	CHECK			MODEL NO.		
X. :+0/-0.2				SIZE	DRAWING NO.	REV.
XX. :+0/-0.2	APPROVAL			A4		A0
XXX. :+0/-0.3						
ANGLE:±2°		UNIT mm		SCALE N /S		SHEET 1 OF 1

5-4. Barcode Label

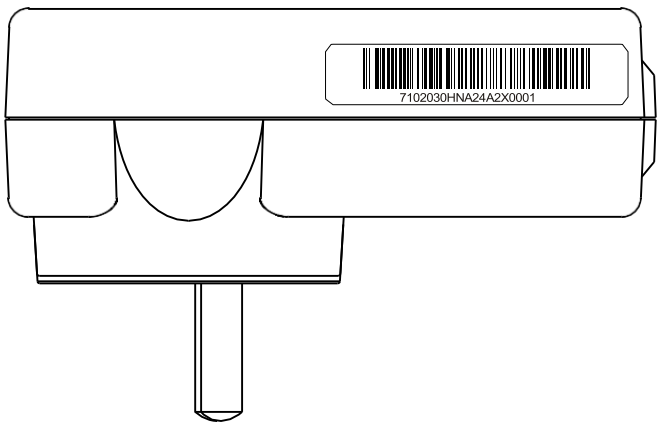
Code 128





材质： 空白白底PET+透明PET+底格纹+耐擦

代码	名称	注释
Z	大华料号第四段	大华料号第四段固定2位;例如大华料号为：1.2.19.99.0016， 此处编码为Z, 1.2.19.01.10002,此处编码为1, 1.2.19.02.10003此处编码为2; 以此类推...
10200	大华料号第五段	大华料号第五段固定为5位, 若此段为4位, 则前面加数字“0”; 例如大华料号为：1.2.19.99.0016， 此处编码为00016, 1.2.19.01.10002,此处编码为10002, 以此类推...
0	衍生料号段	衍生料号段, 若无衍生料号, 此处编码为0; 若有衍生料号, 取3位衍生料号的后2位;例如1.2.19.17.10026-001, 此处对应编码为A; 1.2.19.17.10005-002, 此处对应编码为B; 以此类推...(由于0和O相同， 故O去掉)
HN	供应商代码	深圳欧陆通电子有限公司 (Honor)
ADD	生产日期	A表示年份（ 如2017年用A表示,2018年用B表示， 2019用C表示， 按照26个大写英文字母依序排列）
		DD表示周(如18表示第18周,以此类推...
A0	版本编号	版本编号： 如初始版本A0， 变更后的版本A1，B0，B1...
X	线别	第一位是线别号（ 以实际生产线别为准）
XXXX	流水号	流水号4位： 采用三十二进制(0 1 2~ 9, A B C D E F G H J K L M N P R S T U V W X Y) 如：0001, 0002...0009, 000A…000Y, 0010...001Y...YYYY

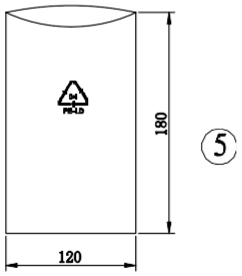


S17/0392

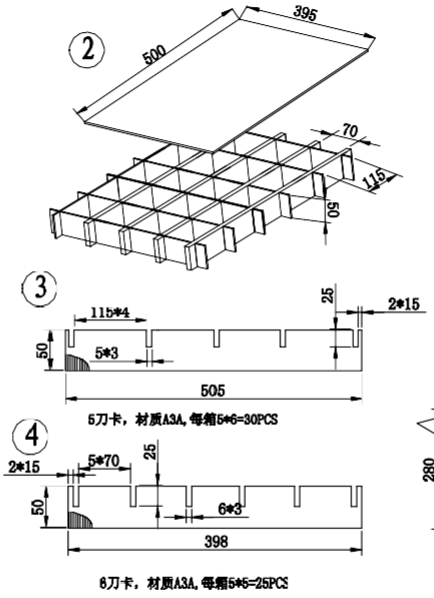
1.2.19.07.10203

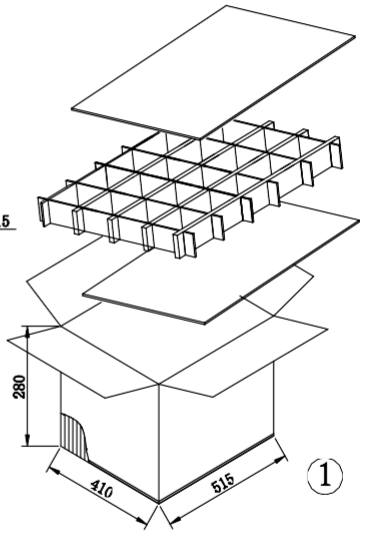
5-5. Packing Drawing

材质:K=K 双坑瓦楞牛皮纸板（B/C坑）
耐破度：11.7kgf/cm² ±0.5
边压强度： 4200N/M±0.5
材质:A=A 双坑瓦楞牛皮纸板（B/C坑）
耐破度： 7.4kgf/cm² ±0.5
边压强度： 3500N/M±0.5
材质:B=B 双坑瓦楞牛皮纸板（B/C坑）
耐破度： 5.4kgf/cm² ±0.5
边压强度： 2800N/M±0.5
材质:A3A 单坑瓦楞牛皮纸板（B坑）
耐破度： 5.0kgf/cm² ±0.5
边压强度： 2000N/M±0.5
材质:B3B 单坑瓦楞牛皮纸板（B坑）
耐破度： 4.5kgf/cm² ±0.5
边压强度： 1800N/M±0.5

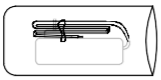


⑤

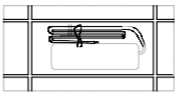




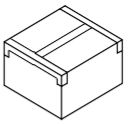
单体装PE袋



刀卡单格产品放置图



封箱图 “工”字型封胶带



备注：
1、材质：外箱:A=A,五层瓦楞纸,厚度:6.0mm Min.
（外箱材质可根据订单而改变）
2、外观：光洁，无污点，黄白色且无色差,交接处无裂缝。
3、尺寸：以上尺寸为箱内尺寸，公差为±5mm。
4、数量：100PCS，(1层装20PCS)分5层装，6块单坑平板。

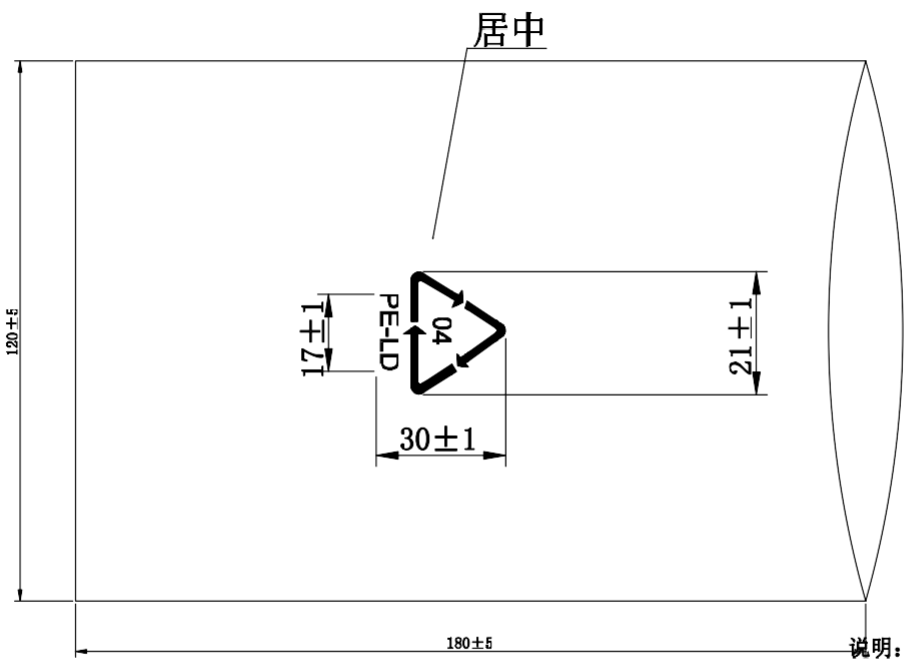
NO.	Part NO.	Name	Specification	QTY	Unit
5	179120180001A	PE袋	120*180*0.04	1	PCS
4	172398050001A	刀卡2	398*50 A3A	0.25	PCS
3	172505050001A	刀卡1	505*50 A3A	0.3	PCS
2	170500395001A	平板	500*395 B3B	0.06	PCS
1	170515410001A	外箱	515*410*280 A=A	0.01	PCS

RevNO	Revision note	Date	Signature	Checked	ECN NO.

公差(单位/MM):
1.刀卡:±2
2.外箱:±5
3.PE袋厚:±0.002
长宽:±5
4.白盒:±3
5.其它参照图面

SHENZHEN HONOR ELECTRONIC CO.,LTD

Model	FSG-GPG GPB GPI 3pin GPCU GPCN-DC1500-卧式刀卡				
Modification	Name	Date	Part Name	包材组件	
Designed by	李国银	2018-05-30	Part NO	80250000203R	
Checked by			DWG NO	025W-14	
Approved by			Rev	A0	Scale



说明：

1. 表面无污点，变形，破裂等。
2. 符合ROHS标准
3. 所有印字及符号为黑色，字迹清晰
4. T=0.04±0.005mm

RevNO	Revision note	Date	Signature	Checked	ECN NO.
A/1	尺寸标记清楚，丝印居中印刷	2018.6.27	郝小卿		

SHENZHEN HONOR ELECTRONIC CO LTD.

Unit: mm
Dim Tolerances:
*: ±1
**: ±3
***:±5
Angle:±3°

Model	120*180mm*0.04mm			
Modification	Name	Date	Part Name	PE袋
Designed by	刘志华	2018-06-27	Part NO	17912018001H
Checked by			DWG NO	040W-53
Approved by			Rev A/0	Scale 1:1