

产品规格说明书

SPECIFICATION

品名 Part No. : SWITCHING POWER SUPPLY	客户承认意见 Approved Signatures:		
型号 Model No. : P12DUSB050200 EU			
设计型号 Design Model No. : P-136A-B6612			
料号 Code: 86-04836			
客户型号 Customer Model No. :			
客户料号 Customer Code:			
设计令号 Design No.: B16	TEST BY	CHECKED BY	APPROVED BY
日期 Date: 2016-11-21			
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确认签署后, 请回传一份。有任何问题, 请尽快告知我们。 Please return us one copy of the approved sheet after signing. Please tell us if you find out some problems in this specification as quickly as possible.			

新版变更
NEW REVISIONS

变更日期 DATE	变更内容 PARTICULARS	备注 REMARKS

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1.变更履历 Approval Sheet Change List

[illegible]

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2.应用文件 Applicable Document

No.	Document No.	Document Depiction	Apply
1	ISO9001-2008	Quality Systems 质量体系	YES
2	IEC 61000-4-2	Electrostatic Discharge Immunity Test 静电干扰	YES
3	IEC 61000-4-3	Radiated, Radio-frequency, Electromagnetic Field Immunity Test. 辐射骚扰	YES
4	IEC 61000-4-4	Electrical Fast Transient / Burst Immunity Test 快速脉冲群测试	YES
5	IEC 61000-4-5	Surge Immunity Test 雷击测试	YES
6	IEC 61000-4-6	Immunity To Conducted Disturbances, Induced By Radio-Frequency Fields.传导骚扰	YES
7	IEC 61000-4-11	Voltage Dips and Interruptions 电压跌落	YES
8	FCC part 15 of CFR 47	Radiated. Conducted Emission Requirement FCC 辐射骚扰,传导骚扰	NA
9	IEC/EN60950	Safety of Information Technology Equipment Including Electrical Business Equipment 信息技术安全标准	YES
	GB4943		NA
	CNS13438		NA
	UL60950		NA
	CISPR 22		NA
	K60950		NA
	AS/NZS60950		NA
10	IEC/EN61558	Safety of Transformers, Power Supply Units and Similar Parts: General Requirements and Tests 一般用途电源供应器	NA
	J61558		NA
11	UL1310	CLASS 2 Power Supply Units 一般用途电源供应器	NA
12	IEC 60335-1-2004	Household and Similar Electrical Appliances - Safety - Part 1: General Requirements 家用和类似用途电器的安全	NA
13	IEC 60335-2-29-2004	Household and Similar Electrical Appliances - Safety - Part 2-29: Particular Requirements for Battery Chargers 家用和类似用途电器的安全.第 2-29 部分:电池充电器的特殊要求	NA
14	IEC 60335-2-81-2002	Household and Similar Electrical Appliances - Safety - Part 2-81: Particular Requirements for Foot Warmers and Heating Mats 家用和类似用途电器的安全.第 2-81 部分:暖脚器和加热垫的特殊要求	NA
15	YD/T 1591-2006	Technical Requirements and test Method of Charger and Interface for Mobile Telecommunication Terminal Equipment 移动通信手持机充电器及接口技术要求和测试方法	NA

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3.要求 Requirements

3.1 电气性能 Electrical Requirements

3.1.1.输入特性 Input Specifications:

参数项目 Items	Min.	Std.	Max.	Unit	测试条件 Condition
额定电压范围 Rated Voltage Range	90	100/240	264	Vac	
额定频率范围 Rated Frequency Range	47	50/60	63	Hz	
空载输入电流(I _o) No Load Input Current	-	-	30	mA	AT100Vac / 240Vac INPUT
负载输入电流(I _p) Load Input Current	-	-	300	mA	AT100Vac / 240Vac INPUT
空载功耗(W _o) No Load Power Consumption	-	-	0.10	W	AT 100Vac INPUT
空载功耗(W _o) No Load Power Consumption	-	-	0.10	W	AT 240Vac INPUT
负载功率(W _p) Full Load Power Consumption	-	-	15.0	W	AT 100Vac INPUT
负载功率(W _p) Full Load Power Consumption	-	-	15.0	W	AT 240Vac INPUT
输入冲击电流 Inrush Current ,Cold	-	-	30	A	AT 100Vac INPUT
输入冲击电流 Inrush Current ,Cold	-	-	50	A	AT 240Vac INPUT
输入过流保护 Input Over-Current protection	-	-	-	A	FRT-2W 2R2K-3kV
输入过压保护 Input Over-Voltage protection	-	NA	-	V	

3.1.2.输出特性 Output Specifications:

参数项目 Items	Min.	Std.	Max.	Unit	测试条件 Condition
空载额定电压(V _o) No Load Rated Voltage	4.75	5.00	5.25	Vdc	AT Rated Input Voltage
负载额定电压(V _s) Full Load Rated Voltage	4.75	5.00	5.25	Vdc	AT Rated Input Voltage
额定电流(I _s) Rated Current		2.0		A	AT Rated Input Voltage
空载输出纹波 No Load Output Ripple	-	-	150	mVp-p	AT Rated Input Voltage and No Load
负载输出纹波 Load Output Ripple	-	-	150	mVp-p	AT Rated Input Voltage and Rated Load
瞬态响应 Transient Response	-	-	-	mS	AT Rated Input Voltage and No Load to Rated Load. 稳定恢复时间
平均工作效率 Average Efficiency	78.70	-	-	%	Average(25%,50%,75%,100% Load) AT Std. Input Voltage; Lev VI xx.x% min
启动延迟时间 Turn on Delay	1.0	-	4.0	S	AT Std. Input Voltage and Rated Load
电压维持时间 Voltage Hold-Up Time	10	-	80	mS	AT Std. Input Voltage and Rated Load
过流保护 Over-Current Protection	-	-	2.8	A	AT Rated Input Voltage; The Power Shall be Protected and Not be Damaged By a Over Rated Current From The Output. 超过该电流,产品会保护而不损坏。
短路保护 Short Circuit Protection	-	跳变	-	A	AT Rated Input Voltage; The Power Shall Not Be Damaged By Short Between DC Output and DC Ground. 输出端短路,产品不损坏。
过压保护 Over-Voltage Protection	-	-	-	V	AT Rated Input Voltage; The Power Shall Not output over this voltage, By Short or open any component. Fault condition tests. 在失败条件下,产品输出不超过此电压。
过温保护 Over Temperature Protection	-	-	140	°C	

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3.2 安全及可靠性 Safety & Reliability

参数项目 Items	条件 Condition	Min.	Std.	Max.	Unit	备注 Note
安全标准 Safety Standard	-	-	-	-	-	J61558 UL60950-1 EN60950-1
电气强度 Dielectric Strength Primary To Secondary Hi-Pot	Current Limit: 5mA	-	3000	-	Vac /minute	Voltage Rise Time : 0.5~2.0 Seconds
漏电流 Leakage Current		-	-	0.25	mA	At 240V Input
负载外壳温度上升 Temperature rise of case surface	AT Rated Input Voltage	-	-	50	°C	Full Load
空载外壳温度上升 Temperature Rise Of Case Surface	AT Rated Input Voltage	-	-	15	°C	No Load
Class for resistance to fire		94V-0	-	-		CASE、PCB
五金件盐雾试验	5%盐水,35 °C	24	-	-	h	Fe
		48	-	-	h	Cu
可靠性 Reliability	MTBF	20000	-	-	Hour	
跌落测试 Drop Test	从 1 米高向下 6 面共 6 次的自由落体于硬木板,电气及安全性能无损坏。 100cm Based In Hardwood Each Side Total 6 th , The Power Shall Not Be Damaged.					
振动测试 Random Vibration	经过以下方法测试产品,电气及安全性能无损坏。 After vibration test, the adapter is no damage. 1) Frequency:10 to 55 Hz and return 10 Hz. 2) Overall Grms: 2.31 m/s (0.236g). 3) Vibration duration: 20 minutes. 4) Vibration waveform: Random. 5) Force Direction: X,Y,Z.					

3.3 电磁干扰 Electromagnetic Interference

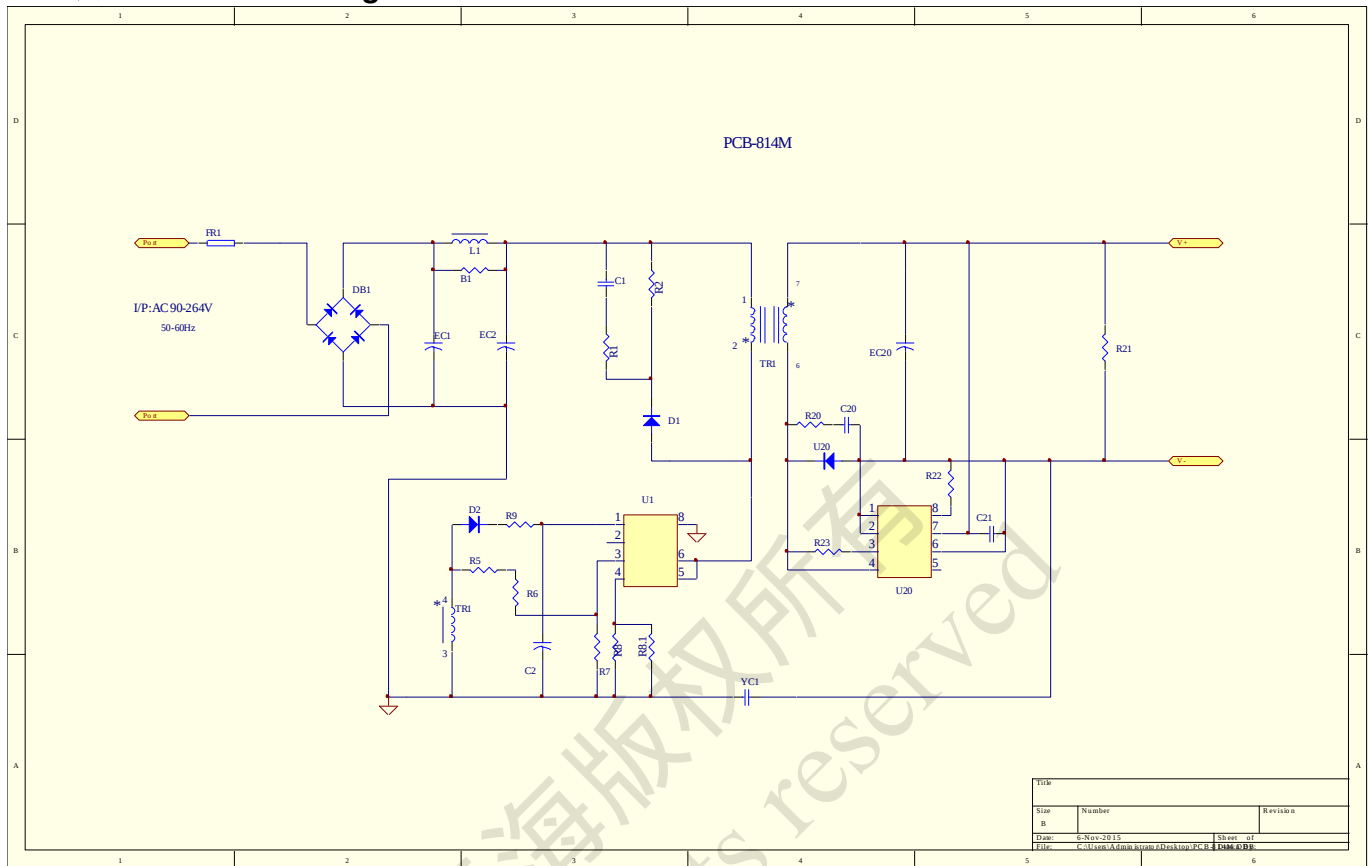
参数项目 Items	条件 Condition	Min.	Std.	Max.	Unit	备注 Note
浪涌冲击抗扰度 Input Line Surge Immunity	Line to Line	-	2	-	kV	IEC 1000-4-5
	Line to Earth	-	-	-	kV	8X20uS,1.2x50uS
快速瞬变脉冲群抗扰度 Electrical Fast Transient	Line to Line	-	-	-	kV	IEC 1000-4-4
放电静电抗扰度 Electrostatic Discharge	Contact	-	±4	-	kV	IEC 1000-4-2
	Non-Contact	-	±8	-	kV	
辐射骚扰 Radiated RF Immunity	30-1000MHz	3	-	-	dB	富余度 Margin IEC1000-4-3,EN55022 GB9254,FCC part15 ,Class B
传导骚扰 Conducted RF Immunity	0.15-30MHz	3	-	-	dB	富余度 Margin IEC 1000-4-6 ,EN55022 GB9254,FCC part15 ,Class B
After All Test, The Power Shall Not Be Damaged						

3.4 环境特性 Environmental Specifications

参数项目 Items	条件 Condition	Min.	Std.	Max.	Unit	备注 Note
温度 Temperature	运行温度 Operation	0	-	40	°C	不结露 No Dewdrop
	储藏温度 Storage	-20	-	80	°C	
湿度 Humidity	运行湿度 Operation	10	-	95	%	
	储藏湿度 Storage	10	-	95	%	

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4.线路图 Schematic Diagram

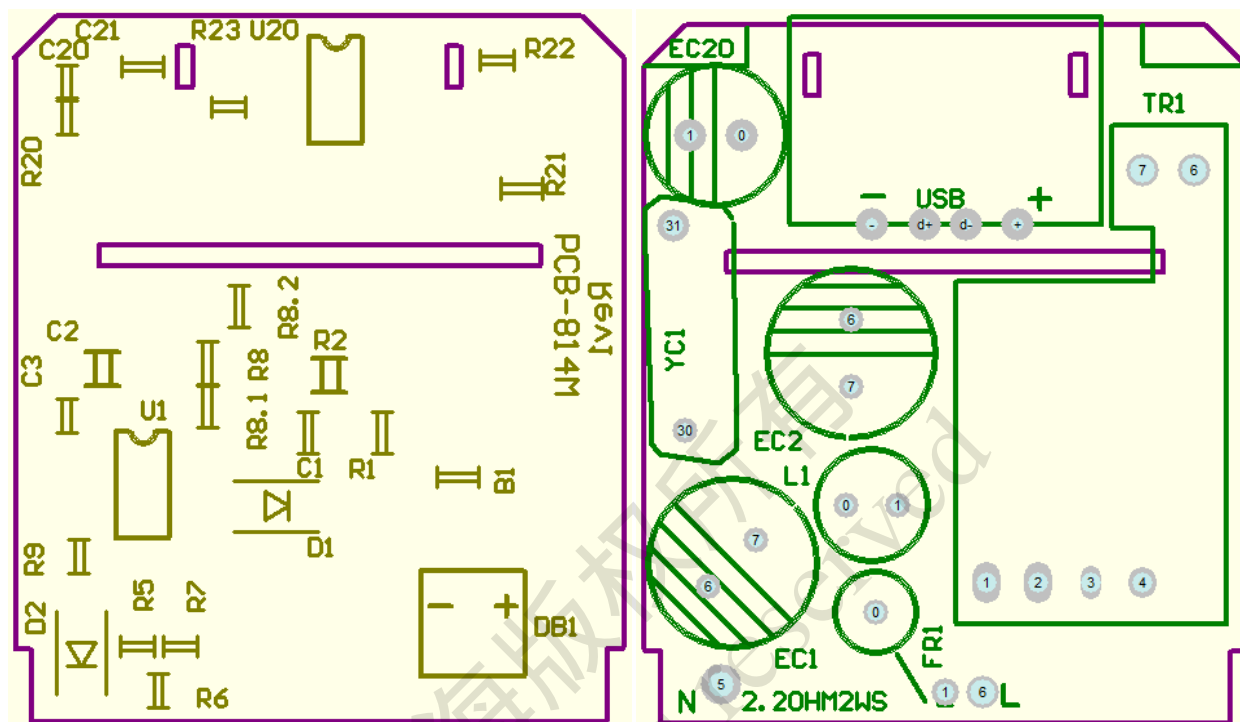


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5.电路板图 P.C.B Diagram

STH 可以根据实际情况决定是否在电路板上印刷元件号码.

STH May According To The Actual Situation Decide Whether Prints The Part Number On The PCB.

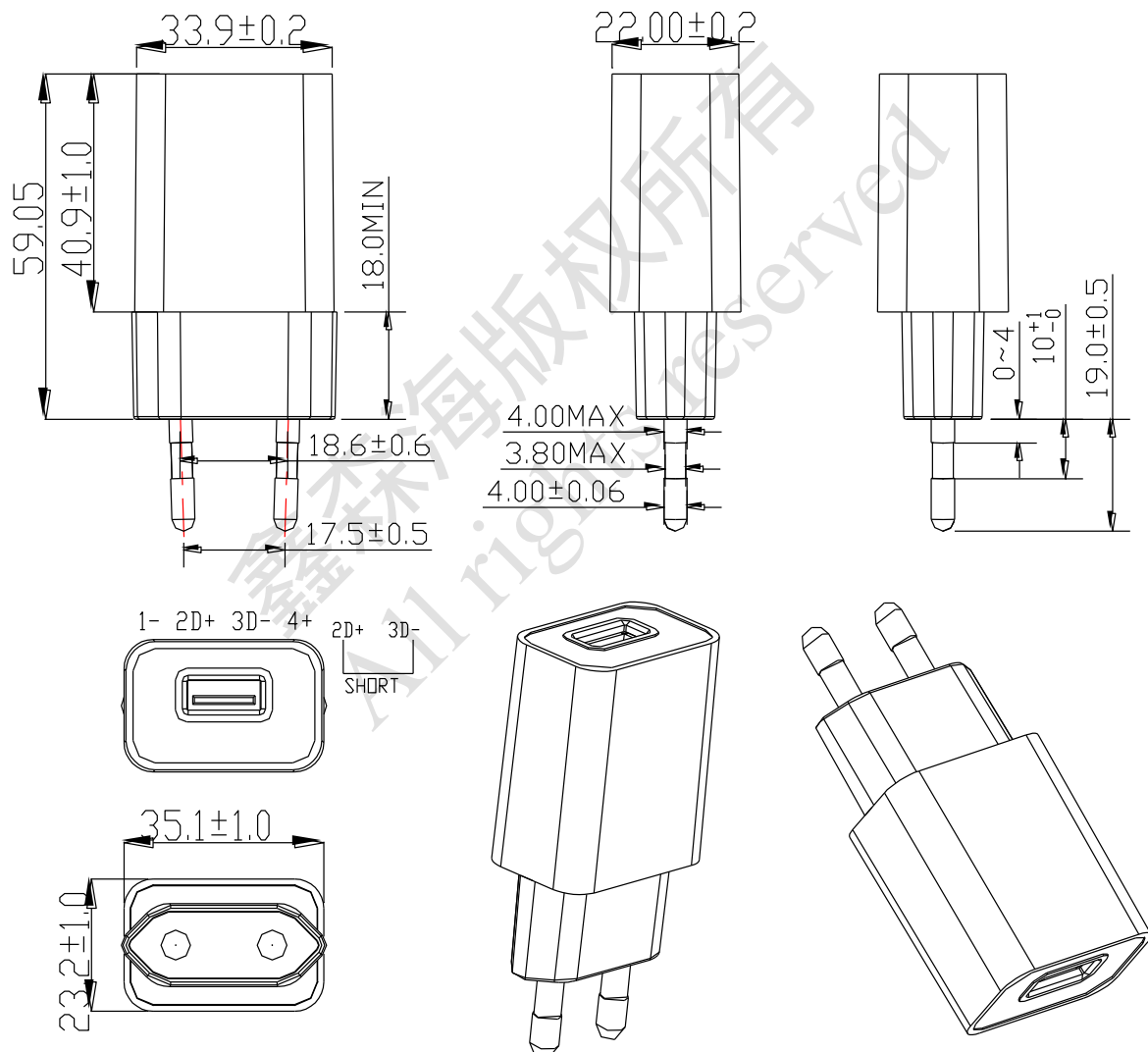


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6.结构图 Mechanical Drawing

6.1 外观图 Appearance Drawing

Items	Condition	Min.	Std.	Max.	Unit.	Note
Dimensions	Height		40.9		mm	
	Wide		23.2		mm	
	Depth		35.1		mm	
Weight			-		g	
Plastic Case Material		PC, 94V-0				
AC BLADE		EU TYPE				
DC PLUG		PIN4"+",PIN1"-",PIN2、PIN3SHORT				



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7. 铭板图 Label Drawing

备注:(激光雕刻)

Remark:(Laser printing)

1.使用CASE:CASE0136-A。

Use CASE:CASE0136-A。

2.字体清晰可读,要求布局居中、尺寸如图;字体或图案与铭板边缘距离大于0.5mm。

The font should be readable,mid layout,size as drawing.

The distance b/w word/pattern and edge should be bigger than 0.5mm.

3.未注公差:+0 / -0.2,认证标志未注公差:+0.2。

Unmarked Tolerance:+0 / -0.2. Unmarked Tolerance just for certificate logo:+0.2.

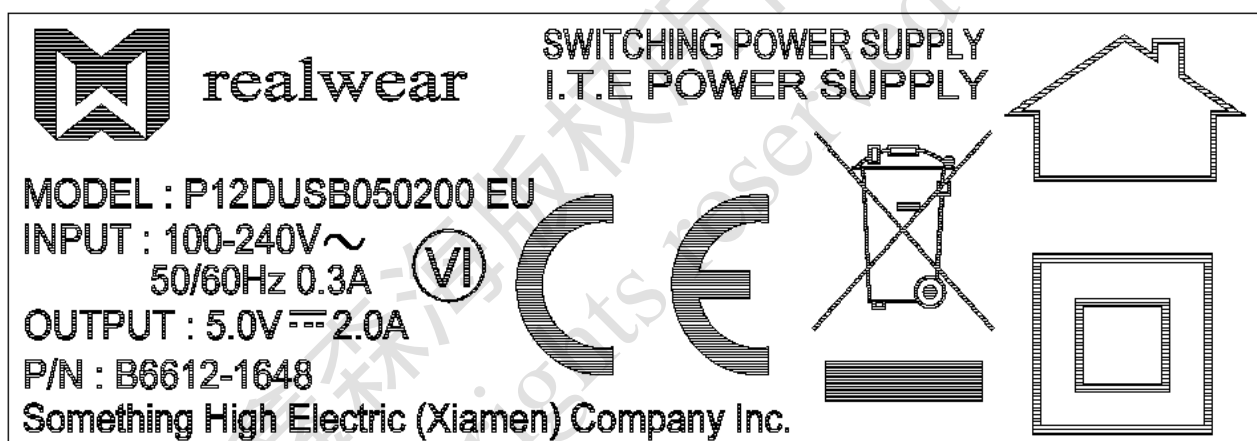
4.年周依定单要求或实际生产日定。

Year and Week should be defined according to the actual production date.

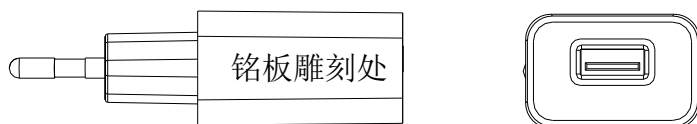
5.CASE上雕刻的内容如下图要求。

Printing content as the following drawing.

设计型号 B6612 - 16 47 周 年
Design NO. Week Year



备注： 铭板刻在产品USB舌头朝下的左侧边。



图档编号	NAP7355-Laser				
机种型号	P-136A-B6612				
修订版次	变更内容	修订	审核	日期	

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8.包装图 Packing Drawing

技术要求:

- 1. 表面要防水处理;
- 2. 破裂强度为12KG/C;
- 3. 分三层装. 300PCS;

	名称	图号	规格	个数
1	外箱	CEHO-172	438X318X280 (内部)	1
2	内切	CT-100-14	433X313X87 (外部)	3
3	隔板		3层瓦楞纸433X313X3.0	4
4	PE袋	OT-0136	120X90X0.04	300

隔板

内切

PE袋

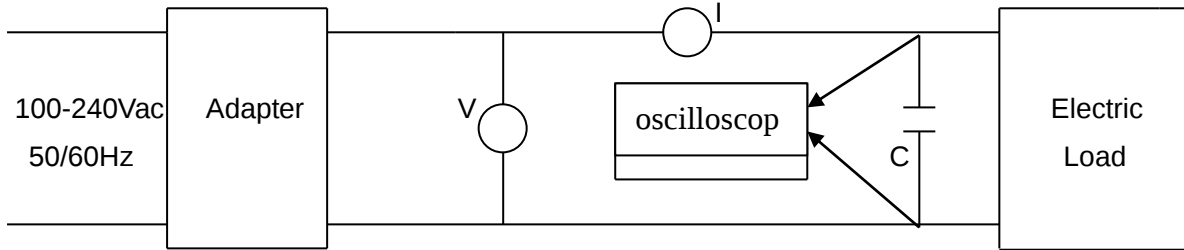
外箱

鑫森海电子股份有限公司				版次 REVISION		1	
图 称 TITLE		包装方式图		图号 DWG NO.		ASY0395	
材料 MATERIAL				机种 MODEL		CASE0136-EU	
单位 UNITS		mm		比例 SCALE		投影 PROJECT	
制图		FMM		设计		日期 DATE	
1		PE袋OT-0216变更为OT-0136		zyb		王强	
ISSUE 版次		REVISIONS 变更内容		SPONSOR 主办		APP. BY 批准	

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9.测试方法 Test Method

Test circuit:



1	Connect the electrolytic capacitor (47 μ F/50V) & Ceramic capacitor (0.1 μ F/50V) to the operating side of electronic loader in parallel 测试端口加接去耦电容: (电解电容 47 μ F/50V)+(瓷片电容 0.1 μ F/50V)	YES
2	Acceptance when the 20MHz oscilloscope shows the ripple of operating side after setting the electronic loader. 示波器带宽设置: 20MHz	YES

10.测试报告 Test Report

10.1 电气测试 Electrical Specification: (备注:使用 22# 1.0m 导线测试)

No.	90VAC 50Hz							
	Io<30mA	Wo<0.10W	Vo=5.00 $\pm$ 0.25VDC	Vripple<150mVp-p	Ip<300mA	Wp<15.0W	Vs=5.00 $\pm$ 0.25VDC	Vripple<150mVp-p
	Load 0 mA				FULL LOAD CC 2.0A			
1	1.8	0.05	5.03	46	250	13.6	5.00	104
2	1.8	0.04	5.02	44	251	13.7	5.03	98
3	1.7	0.04	4.96	34	249	13.0	4.95	98
4	1.8	0.05	5.09	42	251	13.2	5.03	100
5	1.8	0.05	5.11	42	250	13.1	4.99	104

No.	264VAC 50Hz							
	Io<30mA	Wo<0.10W	Vo=5.00 $\pm$ 0.25VDC	Vripple<150mVp-p	Ip<300mA	Wp<15.0W	Vs=5.00 $\pm$ 0.25VDC	Vripple<150mVp-p
	Load 0 mA				FULL LOAD CC 2.0A			
1	1.0	0.07	5.07	48	114	12.5	5.00	108
2	0.9	0.06	5.08	44	114	12.6	5.05	112
3	0.9	0.06	4.99	44	112	12.4	4.96	108
4	0.9	0.05	5.08	42	112	12.5	5.02	110
5	0.9	0.05	5.14	40	123	12.6	5.00	102

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10.2 安全测试 Safety:

Hi-pot test 3.0kV/1min 5mA											
No.	P-S	No.	P-S	No.	P-S	No.	P-S	No.	P-S	No.	P-S
1	PASS	3	PASS	5	PASS	7		9		11	
2	PASS		PASS	6		8		10		12	

10.3 平均效率测试 Average Power Efficiency:

AT 115V 60Hz INPUT , Average Power Efficiency: 78.70% min.					
Items \ Sample No.	1#	2#	3#	4#	5#
No Load Power Consumption (W)	0.05				
25% Load Power Efficiency (%)	82.26				
50% Load Power Efficiency (%)	80.75				
75% Load Power Efficiency (%)	79.70				
100% Load Power Efficiency (%)	79.16				
Average Power Efficiency (%)	80.47				
AT 230V 50Hz INPUT , Average Power Efficiency: 78.70% min.					
Items \ Sample No.	1#	2#	3#	4#	5#
No Load Power Consumption (W)	0.05				
25% Load Power Efficiency (%)	81.85				
50% Load Power Efficiency (%)	81.94				
75% Load Power Efficiency (%)	81.17				
100% Load Power Efficiency (%)	80.66				
Average Power Efficiency (%)	81.41				

STH

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11.材料表 Parts List

No	Location No.	Description	Specification	Part No.	Q'TY/UNIT	Provider 1	Provider 2	Provider 3	Provider 4
Code: 85-04836									
2		PCB	PCB-814M	43-01382	1EA	TOPSUN; ERLING; HUIGENG; CHAOJIE; XINANTAIFA; GRANDWORK			
2	B1	CHIP R	4.7 kΩ 5% 1/8W 0805	15-00026	1EA	TA-I	Fenghua	RALEC	YAGEO
2	R1	CHIP R	220 Ω 5% 1/8W 0805	15-00041	1EA	TA-I	Fenghua	RALEC	YAGEO
2	R2	CHIP R	150 kΩ 5% 1/4W 1206	15-00175	1EA	TA-I	Fenghua	RALEC	YAGEO
2	R5	CHIP R	24 kΩ 1% 1/10W 0603	17-00023	1EA	TA-I	Fenghua	RALEC	YAGEO
2	R6	CHIP R	510 Ω 1% 1/10W 0603	17-00016	1EA	TA-I	Fenghua	RALEC	YAGEO
2	R7	CHIP R	5.1 kΩ 1% 1/10W 0603	17-00055	1EA	TA-I	Fenghua	RALEC	YAGEO
2	R9	CHIP R	3.0 Ω 5% 1/10W 0603	17-00156	1EA	TA-I	Fenghua	RALEC	YAGEO
2	R8,R8.1	CHIP R	1.5 Ω 1% 1/8W 0805	15-00169	2EA	TA-I	Fenghua	RALEC	YAGEO
2	R20	CHIP R	22 Ω 5% 1/10W 0603	17-00022	1EA	TA-I	Fenghua	RALEC	YAGEO
2	R21	CHIP R	1.0 kΩ 5% 1/8W 0805	15-00002	1EA	TA-I	Fenghua	RALEC	YAGEO
2	R22	CHIP R	36 kΩ 5% 1/10W 0603	17-00077	1EA	TA-I	Fenghua	RALEC	YAGEO
2	R23	CHIP R	330 Ω 1% 1/10W 0603	17-00008	1EA	TA-I	Fenghua	RALEC	YAGEO
2	C1	CHIP C	1000pF/500V K X7R 0805	21-00034	1EA	TDK	Fenghua	Samsung	YAGEO
2	C2	CHIP C	2.2μF/35V K X7R 1206	21-00031	1EA	TDK	Fenghua	Samsung	YAGEO
2	C20	CHIP C	1000pF/50V K X7R 0603	23-00008	1EA	TDK	Fenghua	Samsung	YAGEO
2	DB1	CHIP DIODE	0.8A/1000V MBS	31-00020	1EA	Lite-on; ZOWIE; GOOD-ARK; Panjit; INTECH; DIODES; SHINDENGEN ; Sirect ; HONGYANG; STAR SEA; GALAXY; Jingheng; Jinquan; Blue Rocket; UTC; Deliyang; PFC; Sino-microelectronics			
2	D1,D2	CHIP DIODE	1A800V SOD-123FL (小4006)	31-00278	2EA	INTECH; Rohm; IR; ON; ST; TOSHIBA; Fairchild; Infineon; Lite-on; ZOWIE; Panjit; Sirect ; DIODES; SHINDENGEN ; Jingheng; Jinquan; Blue Rocket; PingWei; LangJie; UTC; Deliyang; GOOD-ARK; HONGYANG; STAR SEA; GALAXY; PFC; Sino-microelectronics;			
2	U20	CHIP IC	OB2300WCPA SOP-8	37-00217	1EA	RICHTTEK; GREENERGY; OB; Chipown; Leadtrend ; Si-power			
2	U1	CHIP IC	PN8370SSC-R1D SOP7	37-00285	1EA				
2	TR1	TR	EE13(1388)	41-01633	1EA	STH			
2	FR1	FUSE	RXF21-2WS-2R2-J-C-3kV	55-00086	1EA	ChangSheng	SET		
2	套 FR1	Heat shrink tubing	3Φ X 9mm 黑色	95-00468	1EA	SALIPT	ZHAOTAI	WOER	SCEM
2	套 FR1	Heat shrink tubing	6Φ X 13mm	95-00040	1EA	SALIPT	ZHAOTAI	WOER	SCEM
2	EC1,EC2	ELECTRIC CAPACITOR	2S10μFM400V105D8*12	27-00247	2EA	CAPXON; SAMXON; Su'scon; AISHI; SAMYOUNG; NICHICON; RUBYCON; CHMEC; JIANGHAI; YMIN; KSD; AXBOOM			
2	EC20	ELECTRIC CAPACITOR	2L820μFM6.8V105D6.3*11	27-00253	1EA				
2	YC1	Y CAP	Y1/1000pF/250V 直脚	29-00002-2	1EA	WANMING; Yuyue; SONGTIAN; TDK; HUAXING			
2	L1	INDUCTOR	1mH/0.3A 工 5X7	40-00140	1EA	STH			
2	USB	USB	USB 4PIN A 形 母座 90° 2PIN 侧脚	47-00549	1EA	FUCHENG	YOULIAN	HAOYU	BODA
2		White Silica gel	White Silastic	95-00287	0.4g	Sanchen	Sunyes		
2		YELLOW ADHESIVE	JP-1618FR	95-00160	0.4g	YOUNUO	YOUBANG		

STH

型号 **Model No.:** P12DUSB050200 EU
 版次 **Issue :** 0
 日期 **Date:** 2016-11-21

Execution by	Designed by	Approval by
朱迎斌	张剑鹏	王强

No.	Location No.	Description	Specification	Part No.	Q'TY/UNIT	Provider 1	Provider 2	Provider 3	Provider 4
Code: 86-04836									
1		PCB Components	P-814M-B6612	85-04836	1EA				
1		CASE	CASE0136-EU USB BK PC940(AB 配套)亚光	68-00281	1ST				
1		TIN	1.0Φ 99%Sn0.3%Ag0.7%Cu	95-00146	0.2g				
1		TIN	99%Sn0.3%Ag0.7%Cu	95-00107	1.18g				
1		NAP	NAP7355-Laser	53-06729	1EA				
1		绝缘片	OT-0451 卡板上	95-00436	1EA	ZHAOTAI			
1		ASY	ASY0395	73-00244	1ST				
1		Cert NO.	P12DXXXXYY EU CE	91-00183	1ST				

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12.相关适用证书 Certification



HONG KONG STANDARDS AND TESTING CENTRE

EC VERIFICATION OF COMPLIANCE

Reference Number: EMC-S154056VOC

Applicant: Something High Electric (Xiamen) Company Inc.
Unit 1, 4 Fl, No.903, Tonglong Second Road, Torch Hi-tech Zone,
Xiang'an Industrial District, Xiamen, China

Description: SWITCHING POWER SUPPLY

Brand Name: N/A

Model (basic): P12D050240 EU, P12D050001 EU

(additional): P12D-XXXXYY EU, P12USB050YYY EU, P12DUSB050YYY EU
(Detail see Appendix 1)

We verify that the mentioned product complies with the requirements of the
EC Council Directive on electromagnetic compatibility 2004/108/EC

Applicable Standard(s) with amendments:
EN55022: 2010+AC: 2011
EN55024: 2010
EN61000-3-2: 2006 +A1: 2009 +A2: 2009
EN61000-3-3: 2013

General Remarks:
This verification confirmation is only valid when used in conjunction with the technical file(s) refers to MH191204.
This document applies specifically to the sample(s) investigated in the technical report mentioned above, and not to the bulk.
The CE marking as shown below can be affixed on the product after preparation of necessary conformity documentation, as stipulated in Articles of the Council Directive 2004/108/EC.



Test Laboratory




Dr. LEE Kam Chuen
Authorized Signatory

ElectroMagnetic Compatibility Department
For and on behalf of
Hong Kong Standards and Testing Centre

www.stc-group.org

Date of Issue: 2015-03-12

Execution by	Designed by	Approval by
朱迎斌	张剑鹏	王强

P12D053001 EU	to	P12D053200 EU	0.3	5.3	0.01	2.00	10.60
P12D052001 EU	to	P12D052200 EU	0.3	5.2	0.01	2.00	10.40
P12D051001 EU	to	P12D051200 EU	0.3	5.1	0.01	2.00	10.20
P12D050001 EU	to	P12D050240 EU	0.3	5	0.01	2.40	12.00
P12USB050001 EU	to	P12USB050240 EU	0.3	5	0.01	2.40	12.00
P12DUSB050001 EU	to	P12DUSB050240 EU	0.3	5	0.01	2.40	12.00

Remarks:
 P12D050240 EU was tested on all items listed in Section 2.2 in this report.
 P12D050001 EU was tested on Radiated Emission and Conducted Emission.

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HONG KONG STANDARDS AND TESTING CENTRE EC VERIFICATION OF COMPLIANCE

Reference Number: LVD-S153374VOC

Applicant: Something High Electric (Xiamen) Company Inc.
Unit 1, 4 Fl, No.903, Tonglong Second Road, Torch Hi-tech Zone,
Xiang'an Industrial District, Xiamen, China

Description: SWITCHING POWER SUPPLY

Brand Name: /

Model (basic): P12D050240 EU, P12D05001 EU
(additional): P12DXXXXYY EU, P12USB050YYY EU, P12DUSB050YYY EU
(Detail see Appendix 1)

We verify that the mentioned product complies with the requirements of the
EC Low Voltage Directive 2006/95/EC

Applicable Standard(s) with amendments:

EN 60950-1:2006+A11:2009+A1:2010+A12: 2011+A2:2013

General Remarks:

This verification confirmation is only valid when used in conjunction with the technical file(s) refers to EH190158.

This document applies specifically to the sample(s) investigated in the technical report mentioned above, and not to the bulk.

The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives.



Test Laboratory

CHAN Ka Chun Vincent

Authorized Signatory

Electrical Safety Department

For and on behalf of

Hong Kong Standards and Testing Centre

www.stc-group.org

Date of Issue:

Execution by	Designed by	Approval by
朱迎斌	张剑鹏	王强

Appendix 1:

Model description:

P12DXXXXYY EU, P12USB050YYY EU, P12DUSB050YYY EU

(XXX= Two digits and one decimal point indicate output voltage in Volt; YYY= One digits and two decimal point indicate output current in Ampere) The output current is rising in steps of 0.01A from the min. output current to the max. output current.

Model list

No.	Model			Max. Input current (A)	Output voltage (V)	Min. output current (A)	Max. output current (A)	Output Power (W)
1	P12D240001 EU	to	P12D240050 EU	0.3	24	0.01	0.50	12.00
2	P12D220001 EU	to	P12D220050 EU	0.3	22	0.01	0.50	11.00
3	P12D210001 EU	to	P12D210050 EU	0.3	21	0.01	0.50	10.50
4	P12D200001 EU	to	P12D200060 EU	0.3	20	0.01	0.60	12.00
5	P12D190001 EU	to	P12D190060 EU	0.3	19	0.01	0.60	11.40
6	P12D180001 EU	to	P12D180065 EU	0.3	18	0.01	0.65	11.70
7	P12D160001 EU	to	P12D160075 EU	0.3	16	0.01	0.75	12.00
8	P12D150001 EU	to	P12D150080 EU	0.3	15	0.01	0.80	12.00
9	P12D140001 EU	to	P12D140085 EU	0.3	14	0.01	0.85	11.90
10	P12D138001 EU	to	P12D138086 EU	0.3	13.8	0.01	0.86	11.87
11	P12D135001 EU	to	P12D135088 EU	0.3	13.5	0.01	0.88	11.88
12	P12D130001 EU	to	P12D130092 EU	0.3	13	0.01	0.92	11.96
13	P12D120001 EU	to	P12D120100 EU	0.3	12	0.01	1.00	12.00
14	P12D110001 EU	to	P12D110100 EU	0.3	11	0.01	1.00	11.00
15	P12D100001 EU	to	P12D100120 EU	0.3	10	0.01	1.20	12.00
16	P12D090001 EU	to	P12D090130 EU	0.3	9	0.01	1.30	11.70
17	P12D084001 EU	to	P12D084140 EU	0.3	8.4	0.01	1.40	11.76
18	P12D080001 EU	to	P12D080155 EU	0.3	8	0.01	1.50	12.00
19	P12D075001 EU	to	P12D075150 EU	0.3	7.5	0.01	1.50	11.25
20	P12D072001 EU	to	P12D072150 EU	0.3	7.2	0.01	1.50	10.80
21	P12D070001 EU	to	P12D070150 EU	0.3	7	0.01	1.50	10.50
22	P12D065001 EU	to	P12D065150 EU	0.3	6.5	0.01	1.50	9.75
23	P12D060001 EU	to	P12D060200 EU	0.3	6	0.01	2.00	12.00
24	P12D055001 EU	to	P12D055200 EU	0.3	5.5	0.01	2.00	11.00
25	P12D054001 EU	to	P12D054200 EU	0.3	5.4	0.01	2.00	10.80
26	P12D053001 EU	to	P12D053200 EU	0.3	5.3	0.01	2.00	10.60
27	P12D052001 EU	to	P12D052200 EU	0.3	5.2	0.01	2.00	10.40
28	P12D051001 EU	to	P12D051200 EU	0.3	5.1	0.01	2.00	10.20
29	P12D050001 EU	to	P12D050240 EU	0.3	5	0.01	2.40	12.00
30	P12USB050001 EU	to	P12USB050240 EU	0.3	5	0.01	2.40	12.00
31	P12DUSB050001 EU	to	P12DUSB050240 EU	0.3	5	0.01	2.40	12.00