

规格承认书

SPECIFICATION FOR APPROVAL

客户名称 Customer	_____		
客户料号 Customer No	_____		
产品类别 Product Type	Quick Wall Charger		
设计编号 Designed No.	_____	产品型号 Model No.	LX20AAC-120300-ZP
样单编号 Sample No.	_____	版本 Version	A0
送样日期 Sample Date	2022/07/14		

客户承认签核 CUSTOMER AUTHORIZED SIGNATURE		

PLEASE SIGN AND RETURN ONE COPY 请签字确认并回传本司.

With your signature ,you agree that all contents in this approval sheet are correct and all production units will be manufactured according to the specification described in this sheet.

签字后, 您同意本承认书内容, 所有产品将按此要求生产.



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SPECIFICATION CHANGE RECORD 变更记录

Revision 版本	Change record 变更记录	Confirmed 确认者	Changed date 变更日期
A0	Preliminary Release.		

APPROVE BY	CHECK BY	PREPARED BY



2.1 Power Supply Description 产品概述

This is a series of general purpose AC/DC adapters which convert 100Vac ~240Vac to a stabilized DC voltage of [5V/9V/12V and](#) with rated output current of [3A/2A/1.5A](#) and [3A/2.22A/1.67A](#).
本通用型电源是将100Vac ~240Vac 交流输入电压转换成稳定的直流电压 [5V/9V/12V](#) , 额定输出电流[3A/2A/1.5A](#) and [3A/2.22A/1.67A](#)。

2.2 Power Supply Change Notification 变更事前通知

The vendor will notify customer for significant design changes, before the implementation. However, process improvements can be an exception.

有重大设计变动时,在变更实施之前,供应商将通知到客户,工艺改善可以例外。

2.3 Power Supply Frame 电源结构型式

- Wall mount 插墙式 Desk-top 桌上式
 Open frame 开放式结构/裸板 Other 其它

3.0 ELECTRICAL CHARACTERISTICS 电气性能

3.1 AC Input Voltage and Frequency 输入电压及频率

2.1.1 Rated Input Voltage 额定输入电压 : AC[100-240V](#)

2.1.2 Reliable Input Voltage 可输入电压范围 : AC[90-264V](#)

2.1.3 Rated Input Frequency 额定输入频率: [50/60Hz](#)

2.1.4 Reliable Input Frequency 可输入频率范围 : [47-63Hz](#)

3.2 Maximum AC Current 最大输入电流

Input rated voltage, Output rated load. Input AC Current [0.7Amps](#) Maximum.

输入额定电压,输出额定负载条件下,最大输入电流为:[0.7Amps](#)。

3.3 Input Inrush Current 最大浪涌(突入)电流

Input [100VAC](#) 60Hz, Output rated load(cold start) inrush Current [60Amps](#) peak.

输入[100VAC](#) 60Hz,输出额定负载(冷启动)条件下,最大浪涌(突入)电流为:[60Amps](#)。

Input [240VAC](#) 50Hz, Output rated load(cold start) inrush Current [60Amps](#) peak.

输入[240VAC](#) 50Hz,输出额定负载(冷启动)条件下,最大浪涌(突入)电流为:[60Amps](#)。

3.4 No-load Loss Power 空载功耗

Input [115/230Vac](#), Output no load. Maximum loss power [0.1Watts](#).

输入[115/230Vac](#),输出空载,最大空载功耗为:[0.1瓦](#)。

3.5 Output Voltage 输出电压

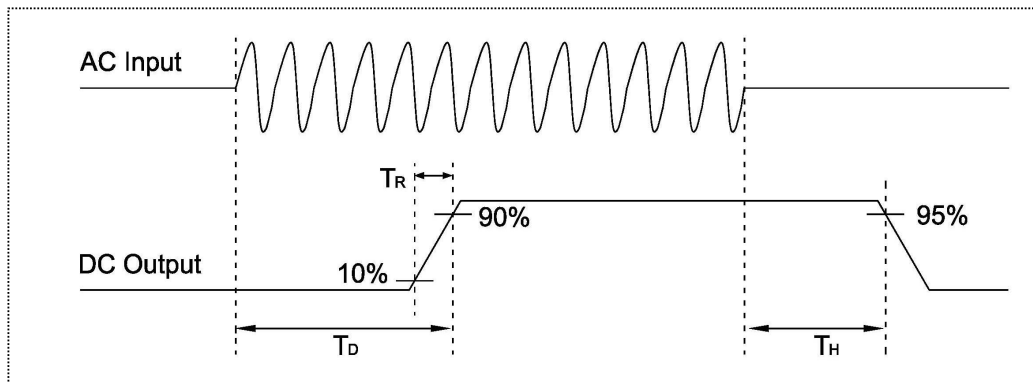
端口	Input 输入	Output Rated Voltage 输出额定电压	Output Voltage range 输出电压范围	Output Rated Current 额定输出电流
A口	100-240Vac 50/60HZ	5Vdc	5Vdc±5%	3.0A
		9Vdc	9Vdc±5%	2A
		12Vdc	12Vdc±5%	1.5A
C口		5Vdc	5Vdc±5%	3.0A
		9Vdc	9Vdc±5%	2.22A
		12Vdc	12Vdc±5%	1.67A

3.6 Output Ripple Voltage 输出纹波电压

- 3.6.1 在额定输入及输出的条件下（25℃）测试输出纹波电压。
- 3.6.2 Peak to peak ripple is measured with an oscilloscope with a bandwidth of 20MHz.
纹波量测时示波器选用20MHz带宽限制。
- 3.6.3 Measurement of ripple should include a 0.1uF ceramic capacitor and a 47uF electrolytic capacitor at the input of the measuring oscilloscope.
测试时在输出端要并联一颗0.1uF的陶瓷电容和一颗47uF的电解电容。

Input	Output Rated Voltage	Output Current	Output Ripple & Noise
100Vac-240Vac	5V/9V/12V	3A/2A/1.5A	200mVp-p Max.
100Vac-240Vac	5V/9V/12V	3A/2.22A/1.67A	200mVp-p Max.

3.7 Time Sequence 时序特性



3.7.1 Turn-On Delay Time(T_D) 开机输出延迟时间:

The maximum cold start turn-on delay shall not exceed **3** second at input [100/240Vac](#) and the rated load condition.

在输入[100/240Vac](#),额定负载情况下,最大冷启动打开的延迟不会超出**3**秒.

3.7.2 Hold-Up Time(T_H) 关机输出维持时间:

3.7.2.1 The maximum turn-off hold-up time shall be least **5mS** at input 100Vac and the rated load condition.

在输入[100Vac](#)及额定负载情况下,关机输出维持时间不低于**5mS**.

The maximum turn-off hold-up time shall be least **10mS** at input 240Vac and the rated load condition.

在输入[240Vac](#)及额定负载情况下,关机输出维持时间不低于**10mS**.

3.7.3 Output Rise Time(T_R) 输出上升时间:

Input 100Vac/240Vac and rated load, The rise time shall not exceed **30mS** that the output voltage rise from **10%** to **90%** rated voltage.

在输入100Vac/240Vac,输出额定负载条件下,输出电压由**10%**额定电压上升至**90%**额定电压的上升时间不会超过**30mS**.



3.8 Output Overshoot 输出过冲

3.8.1 10% Rated Voltage Max. when the power turn on.

当电源开机时,过冲电压值最大为额定电压值的 10%.

3.8.2 10% Rated Voltage Max. when the power turn off.

当电源关机时,过冲电压值最大为额定电压值的 10%.

Output Rated Voltage	Overshoot Voltage(V)	
	Turn on	Turn off
5V/9V/12V	10%	10%

3.9 Output transient response 输出瞬态响应

Output Voltage Tolerance Limited 输出电压范围	Rate Slew 斜率	Load change 负载变化
5V/9V/12Vdc±5%	0.25A/μs	20% to 80% Load

Transient response measurements shall be made with a load changing repetition rate of 100Hz to 10kHz.

测量瞬态响应与负载改变的频率应在 100Hz至10kHz。

3.10 Protection Function 保护功能

3.10.1 Over Voltage Protection **过压保护**

The power supply shall protect itself from any over voltage condition.

电源在过压情况下可自动保护。

3.10.2 Over Current Protection **过流保护**

In the input voltage 115/230Vac,The power supply shall protect itself from any over current condition.it can be automatically restored to be normal when the overcurrent condition removed,the Overcurrent output current is Min. 1.1 times .

在 115/230Vac输入时，电源在过流情况下可自动保护,当过流情况解除后,可自动恢复正常。
过流保护在输出电流的1.1倍最小.

3.10.3 Short Circuit Protection **短路保护**

Shorting of output will not cause power supply to damage, or any safety hazard.

The power supply shall resume normal operation after the short is removed.

输出短路时电源不会损坏,不会有任意的安全危险,短路解除后电源恢复正常工作。

3.10.4 Input Protection **输入保护**

The power supply has a current fuse to protect itself.

该电源由一颗电流保险丝来达到输入保护。

3.11 Average Efficiency 平均效率

Input 115/230Vac. and 100%,75%,50%,25% Rated Load condition. Average

efficiency (η):(5V3A 81.385%)/(9V2.22A 85.465%)/(12V1.67A 85.478%) Min (Meet DOE level VI)

(5V3A 81.385%)/(9V2.0A 85.002%)/(12V1.5A.85.002%) Min (Meet DOE level VI).

在输入115/230Vac,输出100%,75%,50%,25% 额定负载,平均效率 (η):

(5V3A 81.385%)/(9V2.22A 85.465%)/(12V1.67A 85.478%)(符合DOE VI等级),

(5V3A 81.385%)/(9V2.0A 85.002%)/(12V1.5A 85.002%)(符合DOE VI等级).



4.0 ENVIRONMENTAL REQUIREMENTS 环境要求

4.1 Temperature 温度

4.1.1 Storage temperature (Non-operating) 可存储温度(非操作状态):

-20 to 80 degrees C [-20] 至 [80]摄氏度.

Typical values:25 degrees C. 典型值:25摄氏度.

4.1.2 Operating temperature Limits 可操作温度:

0 to 25 degrees C. [0] 至 [25]摄氏度.

Typical values:25 degrees C. 典型值:25摄氏度.

4.2 Relative Humidity 相对湿度

4.2.1 Storage Humidity (Non-operating) 存储湿度(非操作状态):

5% to 95% RH (Non-condensing) [5%] 至 [95%],无凝水状态.

4.2.2 Operating Humidity Limits 操作湿度:

10% to 90% RH (Non-condensing) [10%] 至 [90%],无凝水状态.

4.3 The Sea Level Altitude 海拔高度

4.3.1 Storage Altitude 可存储海拔度(非操作状态):

0 to +2,000m above the sea level [0] 至 [2,000]米.

4.3.2 Operating Altitude 可工作海拔度:

0 to +2,000m above the sea level [0] 至 [2,000]米.

4.4 Cooling Method 冷却方法

Natural air convection 自然冷却



5.2 Insulation Resistance 绝缘阻抗

Test Points	检测部位	Condition & Specification 条件及规格
Input to Output	输入-输出	DC500V 100MΩ min. (at ambient temperature 25 degree C, humidity 90%) DC500V 100MΩ 最小. (在室温25摄氏度,湿度90%条件下).
Input to Case	输入-外壳	DC500V 100MΩ min. (at ambient temperature 25 degree C, humidity 90%) DC500V 100MΩ 最小. (在室温25摄氏度,湿度90%条件下).
Output To Case	输出 - 外壳	Non Isolated

5.3 Hi-Pot 绝缘耐压

Test Points	检测部位	Condition & Specification 条件及规格
Input to Output	输入-输出	3000Vac 50Hz, 60S, ≤10mA.
Input to Case	输入-外壳	3000Vac 50Hz, 60S, ≤10mA.
Output to Case	输出-外壳	Non Isolated

When AC voltage of [3KV](#) is applied, and the voltage applied to the insulation under test is gradually raised from zero to the prescribed voltage in [60s](#), and held at that value for [60s](#) between the input and output and between the input and housing, the current sensitivity shall be less than [10mA](#). After this test, the adapter shall exhibit no electrical and mechanical abnormalities. (AC voltage of [3.0KV, 2s](#) and sensitivity current [10mA](#) shall be applied to the product line).

在输入端对输出端及输入端对外壳间施加了 [3KV](#) 电压, 并且测试中施加在绝缘上的电压是在 [60s](#) 内由 0V 逐渐上升到规定值, 然后保持 [60S](#), 电流灵敏度设置在 [10mA](#)。经过以上测试, 电源应不发生电气及机械上的异常。(注: 在生产线上批量生产时以 [3.0KV, 2s 10mA](#) 进行测试)。

5.4 Leakage Current 漏电流

The leakage current shall not exceed [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及最大负载情况下, 其漏电流应小于 [0.25mA](#), 满足 [Class II](#) 等级。

5.5 Low Temperature Storage 低温存储

Keep the parts unpacked without connecting to the power for [96](#) hours at [-20°C](#). Electrical character tested and appearance after resuming [1](#) hours at room temperature. The electrical performance and appearance should be normal.

产品不包装, 不通电, 在 [-20°C](#) 条件下保存 [96](#) 小时, 常温恢复 [1](#) 小时后, 进行外观、电气性能检测。产品电气性能及外观应是正常的。

5.6 High Temperature Storage 高温存储

Keep the parts unpacked without connecting to the power for [96](#) hours at [80°C](#). Electrical character tested and appearance after resuming [1](#) hours at room temperature. The electrical performance and appearance should be normal.

产品不包装, 不通电, 在 [80°C](#) 条件下保存 [96](#) 小时, 常温恢复 [1](#) 小时后, 进行外观、电气性能检测。产品电气性能及外观应是正常的。



1

6.0 SAFETY STANDARD 安全标准

6.1 SAFETY STANDARD 安全标准

* Meet UL

6.2 ELECTROMAGNETIC COMPATIBILITY (EMC) 电磁兼容性

6.2.1 EMI 电磁干扰

This power supply shall compliance with the following Criterion 本电源将遵照以下标准:

6.2.1.1 Conduction Emission 传导干扰度

EN55032

6.2.1.2 Radiated Emission 辐射干扰度

EN55032

6.2.2 EMS 电磁抗扰

This power supply shall compliance with the following Criterion 本电源将遵照以下标准:

EN55035

电磁兼容性测试是以纯电阻作为负载测试的，我们只对单品测试负责。

7.0 MECHANICAL CHARACTERISTICS 机械性能

7.1 Drop Test 跌落测试

The adapter shall exhibit no abnormality in mechanical or electrical performance when it is dropped 6 times to hardwood(20mm thickness) from a height of 1m, with each of the 6 different sides of the adapter 1 times. The electrical and mechanical performance should be normal after the tested. Small nicks or slight deformations in the corners of the housing, or cracks not penetrating the inside may be accepted. (at:25°C±5°C).

适配器经过落地测试后应无机械或电气性能异常,从1m垂直高度自由跌落到20mm厚度的硬木质板上(硬木质板应放置于水泥基座或同等无弹性的地面上),共跌落6次,6个不同面各1次. 测试后产品电气和机械功能正常,外观或角落有轻微的变形或出现不穿透裂纹是可以接受的(在25°C±5°C)。

7.2 Vibration test specifications non-operating with packing 振动测试(未运行,带包装)

10Hz to 55Hz with sweep at a breadth 2.0mm for 20 Minutes for each of the perpendicular axes X,Y,Z. After the test the electrical performance shall be normal.

振动频率: 10Hz-50Hz; 振幅:2mm; X、Y、Z三个方向各20分钟; 振动测试后产品电气性能应是正常的。



7.3 Input Connection 输入连接:

7.3.1.1 Wall plug or Cord to Cord Type 插墙式或导线式

- | | | |
|--|--|---|
| <input type="checkbox"/> For European/欧规 | <input type="checkbox"/> For US 3PIN/美规 | <input type="checkbox"/> For China/中规 |
| <input type="checkbox"/> For Japanese/日规 | <input type="checkbox"/> For UK 3PIN/英规 | <input type="checkbox"/> For Korea/韩规 |
| <input type="checkbox"/> For Argentina/阿根廷 | <input type="checkbox"/> For Australia/澳规 | <input checked="" type="checkbox"/> For US/美规 |
| <input type="checkbox"/> For Brazil/巴西规 | <input type="checkbox"/> For Singapore/新加坡 | <input type="checkbox"/> Others/其他 |

7.3.1.2 Socket and Terminal Type 母座或端子式

- | | | |
|--------------------------------------|--------------------------------------|--|
| <input type="checkbox"/> 2PIN Socket | <input type="checkbox"/> 3PIN Socket | <input type="checkbox"/> Terminal type |
|--------------------------------------|--------------------------------------|--|

7.3.2 Output Connector 输出连接:

7.3.2.1 Output Plug 输出插头

USB-C 胶芯为橙色 USB-A 胶芯为绿色

7.3.2.2 Polarity 极性

7.3.3 Input & Output Cord 输入输出线材:

7.3.3.1 Length and Cord 长度及颜色

7.3.3.2 Specification 规格

-

7.4 Unit Weight 产品单重

The weight of the unit power supply shall be about 50 g(Ref).

产品单重大约: 50 克 (供参考).

7.5 Dimension 物理尺寸

L:43*W:39.2*H:27.1mm

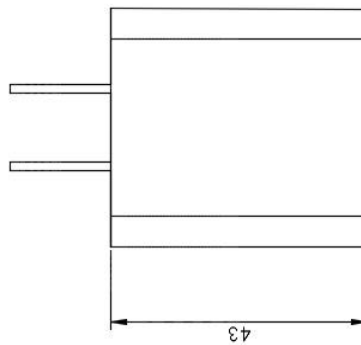
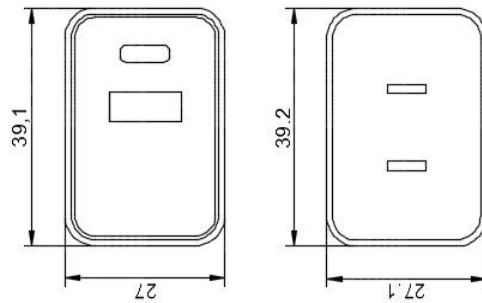
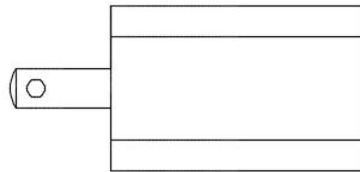
See appearance figure 详见外观图.



8.3 Overall Drawing 外观图

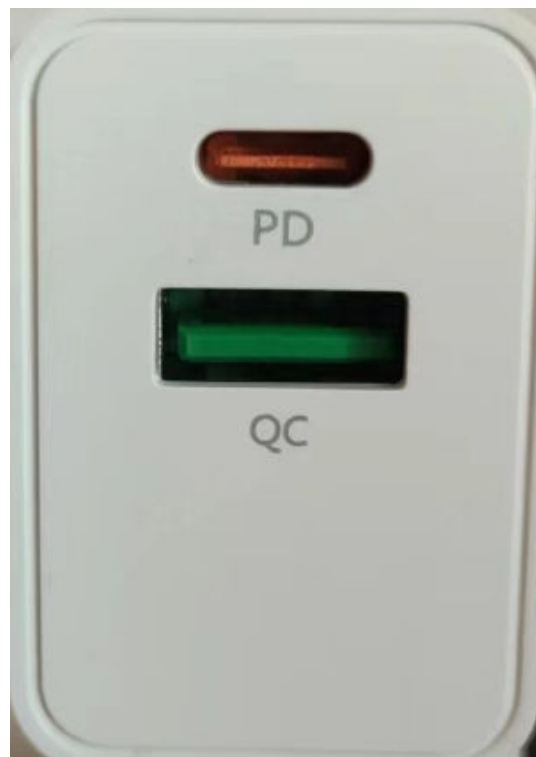
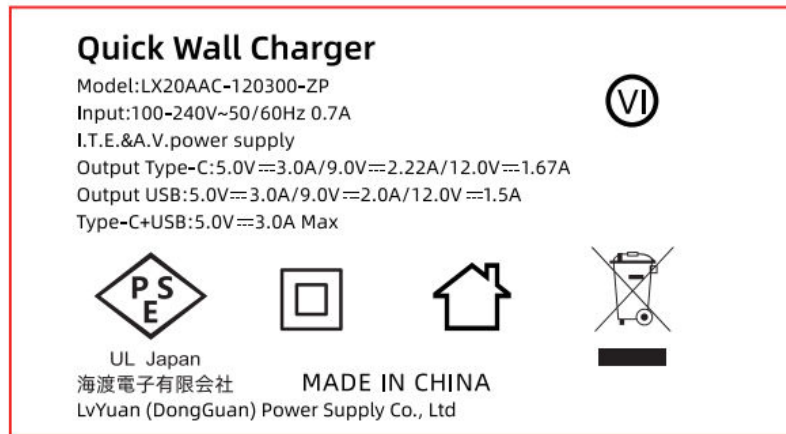
外壳(Enclosure) [White](#)(LEAD FREE) 外壳: [白色](#)

外壳尺寸(The power supply size): [L:43*W:39.2*H:27.1mm](#).





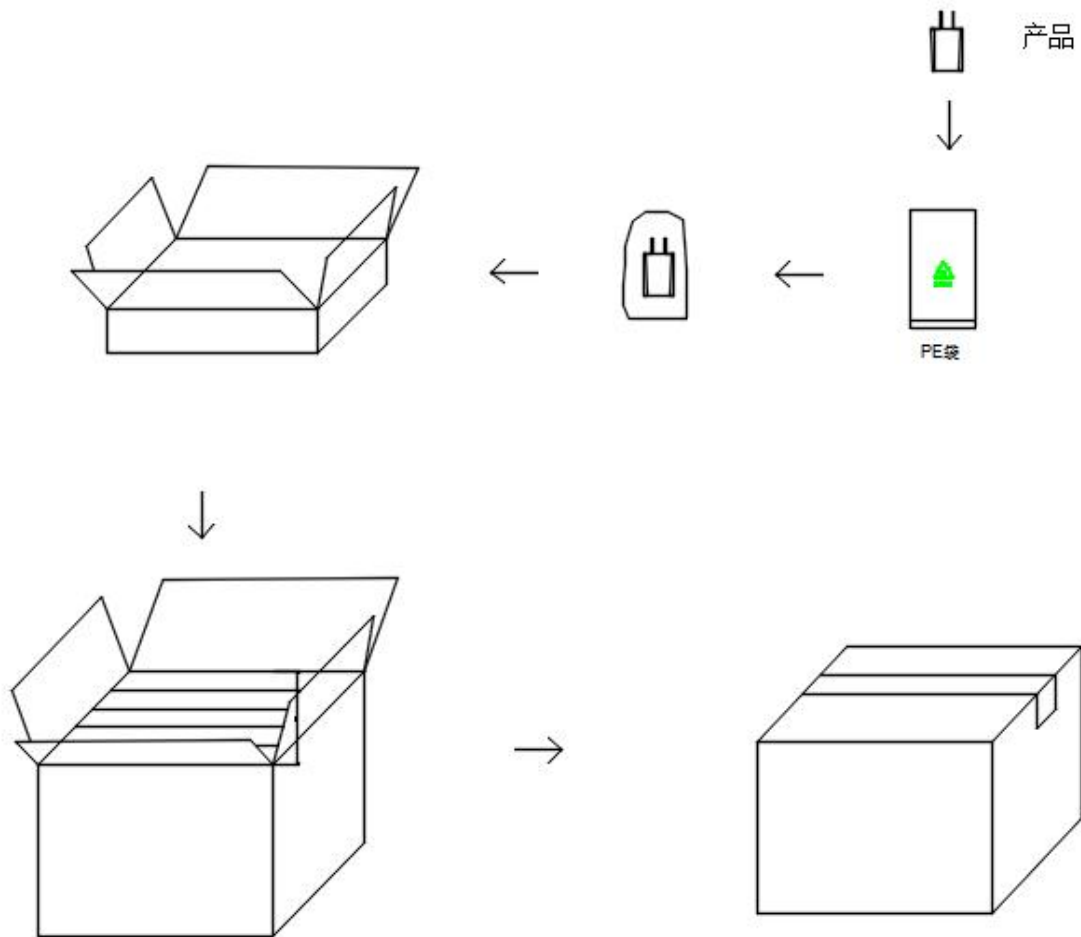
8.4 Nameplate Drawing 铭牌图



Note : 此铭牌内容镭雕于外壳，外框线不用镭雕

Note : Marking will be laser printed(engraved)onto the housing/case.

8.6 Packing Drawing 包装图





样品测试记录表

Sample Test Record Sheet

工程编号.:

INPUT:												
NO	Vin	Vo empty	Vo full	EFF	STAND BY	Input Current	OCP	SHORT		R/N		hi-pot (10mA/60s.)
		0 mA	A	%	< mW	mA	A	5W	300mV max		I/P to O/P(3000Vac)	
		V	V	min	at230Vac		MAX	I/P to O/P(500Vdc 10MΩ)				
5V	90	5.16	4.96	81.27		0.33	3.70	0.85		115		OK
	100	5.16	4.96	81.75		0.31	3.60	1.0		115		
	230	5.16	4.96	81.88	0.074	0.14	3.60	1.1		115		
	264	5.16	4.96	81.72		0.12	3.60	1.0		115		
9V	90	9.19	9.00	84.01		0.54	3.60	1.2		115		OK
	100	9.19	9.00	84.93		0.50	3.00	1.0		115		
	230	9.19	9.00	86.52	0.075	0.22	63.60	1.1		115		
	264	9.19	9.00	86.16		0.198	3.60	1.0		115		
12V	90	12.20	12.04	84.12		0.53	3.10	1.2		115		OK
	100	12.20	12.05	84.84		0.50	3.10	1.0		115		
	230	12.20	12.06	86.70	0.073	0.22	2.70	1.1		115		
	264	12.20	12.06	87.06		0.20	2.70	1.1		115		

外观检查: 符合规格书要求

DC CORD 外观尺寸检查: 符合规格书要求

效率测试 (Efficiency TEST)

负载 Load	效率标准 Eff standard	5V			9V			12V		
		115V/60Hz			115V/60Hz			115V/60Hz		
		Output voltage	Input Power	Eff	Output voltage	Input Power	Eff	Output voltage	Input Power	Eff
25%	%	5.11	4.4	86.10%	9.15	7.2	86.32%		7.42	84.22%
50%		5.07	8.8	85.42%	9.1	14.33	86.27%		14.48	86.12%
75%		5.02	13.33	83.73%	9.06	21.6	85.45%		21.66	86.15%
100%		4.97	17.96	82.02%	9.01	29.11	84.14%		28.94	85.68%
平均效率:		84.32%			85.55%			85.54%		
负载 Load	效率标准 Eff standard	5V			9V			12V		
		230V/50Hz			230V/50Hz			230V/50Hz		
		Output voltage	Input Power	Eff	Output voltage	Input Power	Eff	Output voltage	Input Power	Eff
25%	%	5.11	4.51	83.98%	9.15	7.28	86.35%		7.45	83.88%
50%		5.07	8.97	83.78%	9.1	14.39	86.90%		14.47	86.18%
75%		5.02	13.45	82.98%	9.06	21.57	86.58%		21.53	86.67%
100%		4.97	18.08	81.47%	9.02	28.87	82.95%		28.76	86.29%
平均效率:		83.05%			85.69%			85.76%		



样品测试记录表

Sample Test Record Sheet

工程编号.:

INPUT:												
NO	Vin	Vo empty	Vo full	EFF	STAND BY	Input Current	OCP	SHORT		R/N		hi-pot (10mA/60s.)
		0A	A	%	< mW	mA	A	5W	300mV max		I/P to O/P(3000Vac)	
		V	V	min	at230Vac						MAX	I/P to O/P(500Vdc 10MΩ)
5V	90	5.16	4.96	81.27		0.33	3.70	0.85		115		OK
	100	5.16	4.96	81.75		0.31	3.60	1.0		115		
	230	5.16	4.96	81.88	0.074	0.14	3.60	1.1		115		
	264	5.16	4.96	81.72		0.12	3.60	1.0		115		
9V	90	9.19	9.00	84.01		0.54	3.60	1.2		115		OK
	100	9.19	9.00	84.93		0.50	3.00	1.0		115		
	230	9.19	9.00	86.52	0.075	0.22	63.60	1.1		115		
	264	9.19	9.00	86.16		0.198	3.60	1.0		115		
12V	90	12.20	12.04	84.12		0.53	3.10	1.2		115		OK
	100	12.20	12.05	84.84		0.50	3.10	1.0		115		
	230	12.20	12.06	86.70	0.073	0.22	2.70	1.1		115		
	264	12.20	12.06	87.06		0.20	2.70	1.1		115		

外观检查：符合规格书要求

DC CORD 外观尺寸检查：符合规格书要求

效率测试 (Efficiency TEST)

负载 Load	效率标准 Eff standard	5V			9V			12V		
		115V/60Hz			115V/60Hz			115V/60Hz		
		Output voltage	Input Power	Eff	Output voltage	Input Power	Eff	Output voltage	Input Power	Eff
25%	%	5.11	4.4	86.10%	9.15	7.2	86.32%		7.42	84.22%
50%		5.07	8.8	85.42%	9.1	14.33	86.27%		14.48	86.12%
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平均效率:		84.32%			85.55%			85.54%		
负载 Load	效率标准 Eff standard	5V			9V			12V		
		230V/50Hz			230V/50Hz			230V/50Hz		
		Output voltage	Input Power	Eff	Output voltage	Input Power	Eff	Output voltage	Input Power	Eff
25%	%	5.11	4.51	83.98%	9.15	7.28	86.35%		7.45	83.88%
50%		5.07	8.97	83.78%	9.1	14.39	86.90%		14.47	86.18%
75%		5.02	13.45	82.98%	9.06	21.57	86.58%		21.53	86.67%
100%		4.97	18.08	81.47%	9.02	28.87	82.95%		28.76	86.29%
平均效率:		83.05%			85.69%			85.76%		



10 IMPORTANT NOTICE 重要提醒

Reminder: According to the new Low Voltage directive 2014/35/EU requirements, there must have manufacturer's and importer's information on the end application products or on product packaging or the documentation, the information is mean for: company name and address or trademark logo and registered trade name or postal address, the address should be a single location, otherwise, if anything happened, we will not take responsibility for it.

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