

承认书



SPECIFICATION FOR APPROVAL

Switching power Supply/开关电源

客 户:

CUSTOMER: Sparkfun

产品描述:

DESCRIPTION: Input:100~240V AC 50/60Hz Output: 5VDC4A

机种型号:

OUR MODEL NO: YNQX30D050400DL

样品编号:

日期:

SAMPLE NO: QX201900381 DATE: 2019-04-10

产品颜色:

SAMPLE COLOR: Black ☒ White ☐符合环保项: RoHS ☒ REACH ☒ PAHS ☐ 17P ☐ 加州 65 ☐

APPROVAL SIGNATURE/客户确认		
核准/APPROVED BY	审核/CHECKED BY	检测/TESTED BY
Manufacturer/制造商		
业务/SALES	核准/APPROVED BY	设计/DESIGNED BY
Nick		

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版本目录/Rev. List

版本/Rev.	日期/Date	描述/ Description	制订/Design
A0	2019-04-10	新版本/New Rev.	ZHY

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1、描述/ DESCRIPTION:

本规格书适应于 YNQX30D050400DL 型号的开关电源.

The purpose of the document is to specify the functional requirements of a 20W switching power supply.

2、输入特性/INPUT CHARACTERISTICS:

2.1 输入电压/Input Voltage:

额定电压/Rated Voltage:100~240Vac

调整范围/Variation Range:90-264Vac

2.2 输入频率/Input Frequency:

额定频率/ Rated Frequency: 50/60Hz.

调整频率/Variation Frequency:47-63Hz

2.3 输入电流/Input Current:

当输入交流电压为额定值的下限电压负载满载时,最大输入交流电流 1.0A.

1.0Amps max At any input voltage and rated, DC output rated load.

2.4 浪涌电流/Inrush Current:

当输出为额定负载,环境温度为 25℃,输入 240Vac 冷态起机时无损坏.

No damage shall be occurred and the input fuse shall not be blown up, Cold start at 240Vac input, with rated load and 25℃ ambient.

2.5 AC 漏电流/Ac Leakage Current:

当输入电压 240Vac 时,最大漏电流为 0.25mA.

0.25mA Max.At240Vac input.



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3、输出特性/OUTPUT CHARACTERISTICS:

3.1 输出功率/Power output (AC:100~240V)

电压 Voltage	最小负载 Min. Load	额定负载 Rated. Load	峰值功率 Peak	输出功率 Output power
5VDC	0.01A	4A		20W

3.2 负载特性,调整率/Combined Load/Line Regulation (AC:100~240V)

电压 Voltage	最小负载 Min. Load	额定负载 Rated. Load	线性调整 Line Regulation	空负载电压 Voltage I=0/I=R
5VDC	0.01A	4A	±2%	4.6-5.4 V

3.3 纹波和噪音 Ripple and Noise:

测试条件:在输入 115/230Vac 和输出最小及最大负载时,使用示波器带宽为 20MHz 连接到适配器的输出端,同时输出端并联一个 47uF 的电解电容和一个 0.1uF 的瓷片电容.

At 115/230Vac input and output Min and Max.Load, the ripple and noise are as follows when measure with Max.Bandwidth of 20MHz and Parallel 47uF/0.1uF,crossed connected at testing point.

电压 Voltage	最大纹波/最大噪音 Ripple and Noise(Max.)
+5VDC	150mV p-p

3.4 启动延迟时间/Turn on delay time:

当输入 115Vac 和输出最大负载时,最大启动时间为 3S.

3Seconds Max.at 115Vac input and output Max.load.

3.5 上升时间/Rise time:

当输入 115Vac 和输出最大负载时最大时间为 40 mS.

40 mS Max.at 115Vac input and output Max load.

3.6 保持时间/Hold up time:

当输入 115Vac 和输出最大负载时,最小保持时间为 5mS .

5mS Min.at 115Vac input and output Max.Load.

3.7 待机功耗/Standby Power:

当输入 115Vac 60Hz 时 0.1W 最大 .

0.1W Max. at 115Vac 60Hz Io=0 input.



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3.8 效率/Efficiency:

当 115/230Vac 输入电压时, 1/4, 1/2, 3/4 和满载计算平均效率, 最小 83.08%

83.08%Min, At 115/230Vac input voltage, 1/4, 1/2, 3/4 and full load calculation average efficiency.

适配器满足能效 VI。

Adapter meet efficiency level VI.

3.9 过冲/Overshoot:

在电源开启或关闭的时候,最大 15%.

15% Max. When power supply at turn off/on.

4、保护功能/PROTECTION FUNCTION:

4.1 短路测试/Short circuit test:

该电源供给器在短路解除时能正常工作恢复.

The power supply will be auto recovered when short circuit faults remove.

4.2 过流保护/Over current Protection:

过流故障排除后,电源将自动恢复正常工作.

The power supply will be auto recovered when over current faults remove.

5、环境要求/ENVIRONMENTAL REQUIREMET:

5.1 工作温度/Operating Temperature:

0°C-40°C,满载,正常工作.

0°C to 40°C, Full load, Normal operation.

5.2 储藏温度/Storage Temperature:-20°C to 60°C

带外壳/With package

5.3 工作湿度/Relative Humidity:

5%(0°C)~90%(40°C),72 小时,满载,正常工作.

5%(0°C)~90%(40°C)RH,72Hrs, Full load, Normal operating.

5.4 振动/Vibration:

1. 测试标准:国际电工电子委员会

Operating: IEC 721-3-3 3M3

5~9Hz, A=1.5mm

加速度(9~200Hz, Acceleration 5m/S2)



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2. 运输/Transportation:

IEC 721-3-2 2M2

5-9Hz,A=3.5mm

9~200Hz,加速度 Acceleration=5m/S²

200~500Hz,加速度 Acceleration=15m/S²

3. 轴向振动/Axes,10 cycles per axis.

在测试过程中不能出现永久性的损坏.

No permanent damage may occur during testing.

在电源开启和关闭后,样机能够恢复到最初条件.

The SAMPLE has to restore to its original situation after power off/on.

5.5 跌落试验/Dropping Packed:

跌落高度为 760mm;

Drop the height is 760mm.

测试台面是厚 13mm 的夹木板, 离地面高 19-20mm

The horizontal surface consists of hardwood at least 13mm thick, mounted on two layers of plywood each 19mm to 20mm thick,all supported on a concrete or equivalent non-resilient floor.

6、安全及 EMI 要求/SAFETY AND EMI REQUIREMENT:

6.1 安全: 符合标准 : UL60950、EN60950

Safety:accord with : UL60950、EN60950

6.2 高压/DIELECTRIC STRENGTH Hi-Pot:

初级对次级/Primary to secondary: 4242Vdc/5mA/60S for type test.

6.3 绝缘抗阻/Insulation resistance:

初级对次级/Primary to secondary:20M Ω min at 500V DC.

6.4 EMI 标准/EMI STANDARD

Meets the Limits of/测试符合

<1>.Fcc part15 class B rules

<2>.EN55032 class B rules

<3>. GB17625.1-2012

<4>.AS/NZS CISPR32:2015.

<5>.IEC61000-4-5

<6>.IEC61000-4-2

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7、 结构参数/MECHANICAL REQUIREMENT:

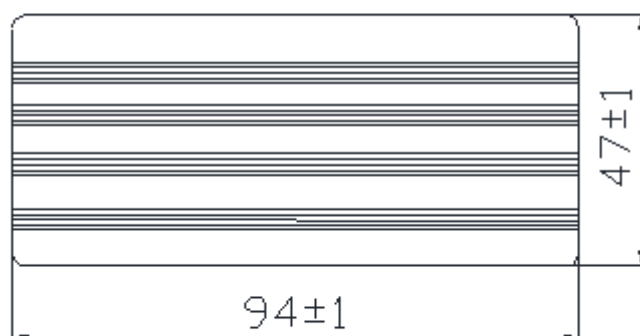
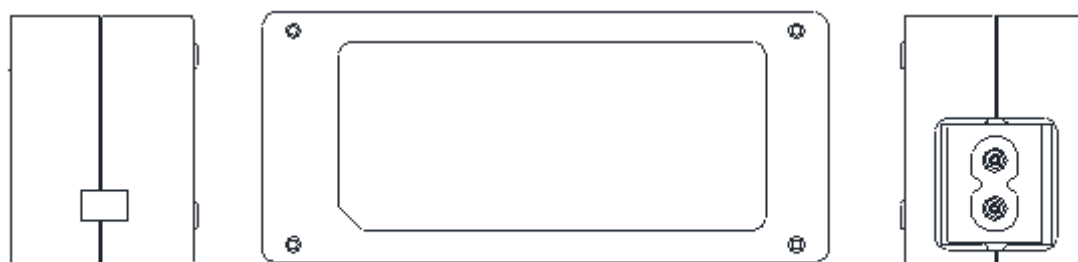
7.1 外壳/Enclosure:

The power supply size: L94x W47x H30mm;

外壳尺寸: L94x W47x H30mm;

7.2 输入线/Input Connector:

2PIN 插脚/Two pin input plug of 2PIN.



dimension(mm)

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NOTE:

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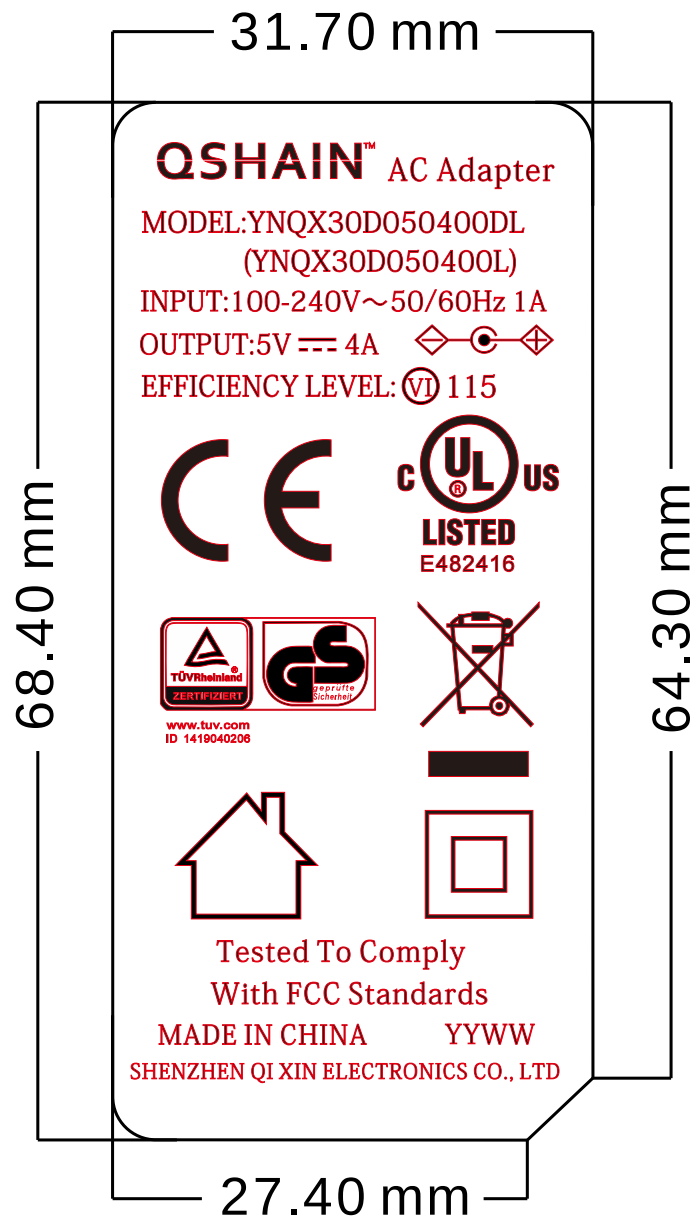
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9、铭牌/LABEL:



NOTES:

- 1.激光丝印于外壳上
- 2.YYWW,YY 表示年份,WW 表示周数
- 3.此铭牌是按业务要求制作

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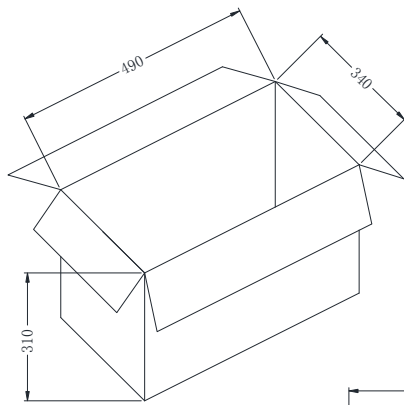
深圳市齐鑫电子有限公司
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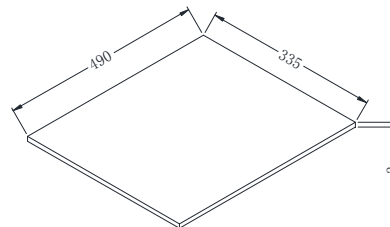
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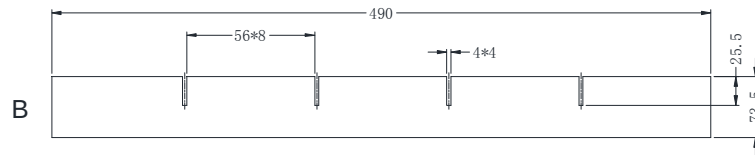
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10、包装说明/PACKING:

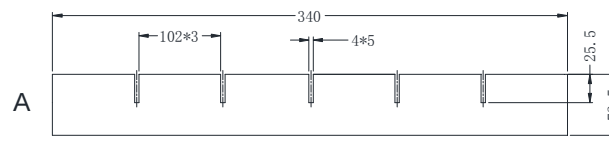
外箱/Carton



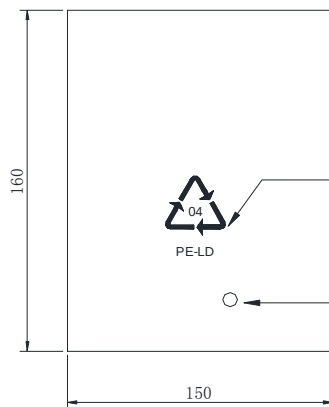
平板/Slab



B



A



胶袋/Pe bag

绿色字体/
Green lettering透气孔
Breathe freely os

包材/Packing:

A:L340*W73.5mm

B:L490*W73.5mm

外箱内尺寸/Carton inside size:L490*W340*H310mm

平板/Slab:L490*W335*T3mm

胶袋/Pe bag:L160*W150*T0.03mm

数量/Quantity:96PCS/CTN

备注：此包装材料仅供参考。

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11、测试报告/ELECTRICAL TEST REPORT:

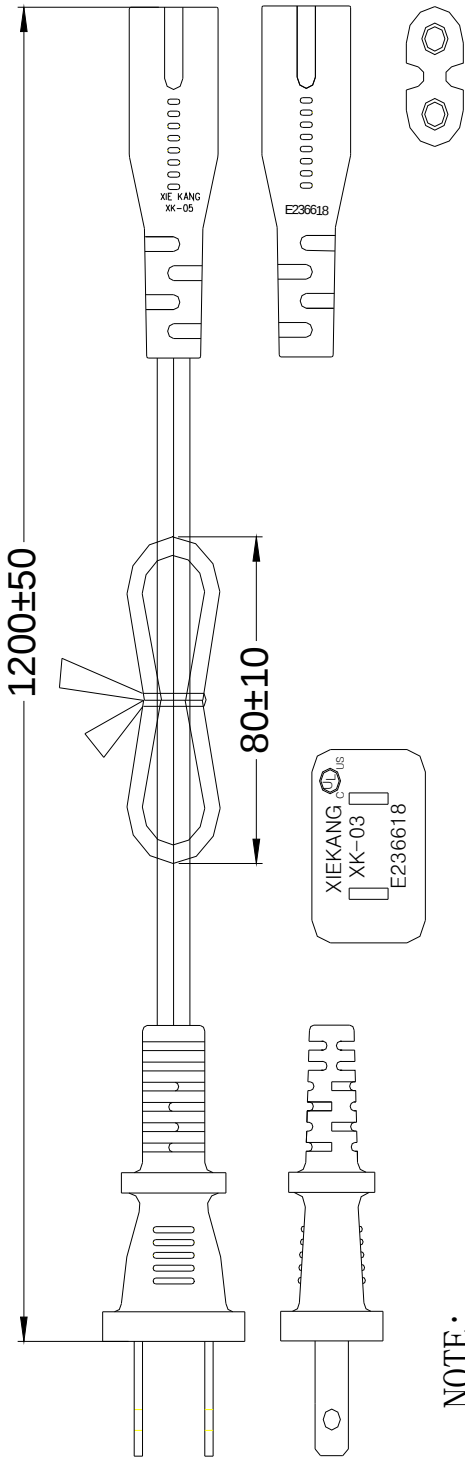
No 序号	Test item 测试项目	Test condition 测试条件	Standard spec 标准规格	Test data 测试数据					Unit 单位	Judge 判定
				1	2	3	4	5		
1	Output Voltage 输出电压	Vin100Vac 60Hz Io=0 输入 100Vac 空载	4.6-5.4 V	5.25	5.26				V	Pass
2	Output Voltage 输出电压	Vin100Vac 60HzIo=Rated Current 输入 100Vac 60Hz 负载	4.6-5.4 V	4.65	4.65				V	Pass
3	Average Efficiency 平均效率	Vin 115Vac 60Hz 输入 115Vac 60Hz	83.08%	83.28	83.29				%	Pass
4	Ripple&Noise mVp-p 纹波&杂讯	Vin100Vac 60Hz Full load 输入 100Vac 60Hz 满载	150mVp-p	92	94				mVp-p	Pass
5	Line Regulation 线性调整率	Vin=100V~240V Io=Rated Current 额定电流	±2%	OK	OK					Pass
6	Standby Power 待机功耗	Vin 115Vac 60Hz Io=0 输入 115Vac 60Hz	0.1W max	0.05	0.06				W	Pass
7	Short circuit test 短路测试	Vin100Vac 60Hz 输入 100Vac 空载	No odor smoke fire plastic deformation and excessive heat happen. 无冒烟,起火,外壳变 形及过热现象	OK	OK					Pass
8	OCP 过电流保护	Vin100Vac 60Hz 输入 100Vac	AMax	6.02	6.04				A	
9	Output Voltage 输出电压	Vin240Vac 50Hz Io=0 输入 240Vac 空载	4.6-5.4 V	5.24	5.25				V	Pass
10	Output Voltage 输出电压	Vin240Vac 50HzIo=Rated Current 输入 240Vac 60Hz 负载	4.6-5.4 V	4.74	4.75				V	Pass
11	Average Efficiency 平均效率	Vin230Vac 50Hz 输入 230Vac 50Hz	83.08%	83.12	83.14				%	Pass
12	Ripple & Noise mVp-p 纹波&杂讯	Vin240Vac 50Hz Full load 输入 240Vac 50Hz 额定电流	150mVp-p	96	98				mVp-p	Pass
13	Line Regulation 线性调整率	Vin=100V~240V Io=Rated Current 输入 100V~240V	±2%	OK	OK					Pass
14	Standby Power 待机功耗	Vin230Vac 50Hz Io=0 输入 230Vac 50Hz	W max						W	Pass
15	Short circuit test 短路测试	Vin240Vac 50Hz 输入 240Vac 50Hz	No odor smoke fire plastic deformation and excessive heat happen. 无冒烟,起火,外壳变 形及过热现象	OK	OK					Pass
16	OCP 过电流保护	Vin230Vac 50Hz 输入 230Vac 50Hz	AMax	6.26	6.27				A	
17	Hi-pot test 高压测试	高压/DIELECTRIC STRENGTH Hi-Pot: 初级对次级 /Primary to secondary:4242Vdc/5mA/60S for type test		OK	OK					Pass
18	Burn in 老化	Input:220Vac/50Hz Full Load 4hrs 输入 220Vac/50Hz 满载 4 小时		OK	OK					Pass
19	Drop test 跌落	Heigh:1m Three*faces(once on each plane) 高 1 米,3 个面,每面 1 次.		OK	OK					Pass
REMARK 备注										



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12、线材/AC CORD:



- NOTE:
- 1、线材印字内容 (UL)E253760 BENDA SPT-1 18AWGX2C VW-1 300V 105C ROHS
 - 2、SPT-1 18# 41/0.16黑色过REACH环保
 - 3、所有材料过REACH环保

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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