

承认书

SPECIFICATION FOR APPROVAL

Class 2 Power Supply/ II 类电源供应器

客户:

CUSTOMER: _____

产品描述:

DESCRIPTION: Input:100-240V AC 50/60Hz Output:24VDC0.5A

机种型号:

OUR MODEL NO: _____ **BD-2400500**

样品编号:

日期:

SAMPLE NO: B22102503

DATE: 2024.10.16

产品颜色:

SAMPLE COLOR: Black White

APPROVAL SIGNATURE/客户确认

核准/APPROVED BY	审核/CHECKED BY	检测/TESTED BY

Manufacturer/制造商

业务/	核准/APPROVED BY	设计/DESIGNED BY

型号/Our model : BD-02400500

客户/*Customer:*

日期/Date:2024-10-16

样品编号/SAMPLE No:B22102503

版本目录/Rev. List

版本/Rev.	日期/Date	描述/ Description	制订/Design

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1、描述/*DESCRIPTION*:

本规格书适应于 BD-2400500 型号的开关电源.

The purpose of the document is to specify the functional requirements of a 12W 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*:90-260Vac

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 0.5A.

0.5Amps 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 冷态起机时的最大浪涌电流小于 30A.

30 Amps Max. Cold start at 240Vac input, with rated load and 25 °C ambient.

2.5 AC 漏电流/*AC LEAKAGE CURRENT*

当输入电压 240Vac 时,最大漏电流为 0.5mA.

0.25mA Max.At240Vac input.

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3、输出特性/OUTPUT CHARACTERISTICS:

3.1 输出功率/Power output

电压 <i>Voltage</i>	最小负载 <i>Min. Load</i>	额定负载 <i>Rated. Load</i>	输出功率 <i>Output power</i>	峰值电流 <i>Peak Current</i>	峰值功率 <i>Peak power</i>
24Vdc	0.01A	0.5A	12W	0.52A	12.6W

3.2 负载特性,调整率/Combined Load/Line Regulation

电压 <i>Voltage</i>	最小负载 <i>Min. Load</i>	额定负载 <i>Rated. Load</i>	线性调整 <i>Line Regulation</i>	电压范围 <i>Voitage range</i>
24Vdc	0.01A	0.5A	±3%	±5%

3.3 纹波和噪音 *Ripple and Noise*:

测试条件:在额定电压及额定负载条件下,使用示波器带宽为 20MHz 连接到充电器的输出端,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.

Under nominal voltage and nominal 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.

电流 <i>Current</i>	最大纹波/最大噪音 <i>Ripple and Noise(Max.)</i>
<u>0.5A</u>	100mV p-p

3.4 启动延迟时间/Turn on delay time:

当输入 220Vac 和输出最大负载时,最大启动时间为 3S.

3Second Max.at 220Vac 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 220Vac input and output Max load.

3.6 保持时间/Hold up time:

当输入 220Vac 和输出最大负载时,最小保持时间为 5 mS .

5 mS Min.at 220Vac input and output Max.Load.

3.7 效率/Average Effiviency

当输入 115V/240Vac 时输出 100%Load 75%Load 50%Load 25%Load 负载平均效率最小 80%。适配器满足能效 VI

Average Effiviency 84.13% Min, At 115V/240Vac input and output 100%Load 75%Load 50%Load 25%Load Adapter meet efficiency Six v

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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.

4.3 过压保护/*Over Voltage Protection*:

当输出电压超过额定电压的 120%~170%时,电源将保护,故障排除后能恢复正常工作.

The power supply will auto recovered when faults remove 120%~170%.

5、环境要求/*ENVIRONMENTAL REQUIREMET*:

5.1 工作温度/*Operating Temperature*:

0°C-35°C,满载,正常工作.

0 °Cto 35 °CFull load, Normal operation.

5.2 储藏温度/*Storage Temperature:-20 °Cto 80 °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 使用环境条件/*Using the environment conditions*

仅适合海拔 2000m 以下的地区安全使用

Only suitable for an altitude of 2000 m below the regional security

仅适用于非热带气候条件下使用

Use only apply to the tropical climate conditions

5.5 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*)

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*

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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..

5.6 跌落试验/*Dropping Packed:*

插墙式跌落高度为 1 米、桌面式跌落高度为 760mm ;

1M for wallmount type and 760mm for desktop type as above described.

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、安全要求/*SAFETY REQUIREMENT:*

6.1 安全:符合标准 CE62368

Safety: accord with CE62368

6.2 高压/*DIELECTRIC STRENGTH Hi-Pot:*

初级对次级/*Primary to secondary:3000Vac5mA/3S for type test.*

6.3 绝缘抗阻/*Iusulation resistance:*

初级对次级/*Primary to secondary:10MΩ min at 500V DC.*

6.4 EMI 标准/*EMI STANDARD*

Meets the Limits of/测试符合

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7、 结构参数/*MECHANICAL REQUIREMENT*:

7.1 外壳/*Enclosure*:

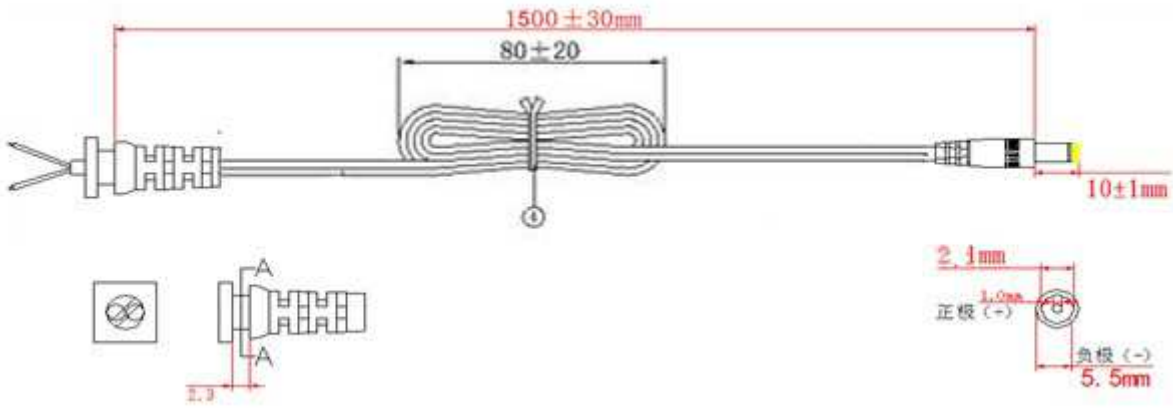
外壳尺寸: L75 x W30x H40mm;

The power supply size: L75x W30 x H40mm;



8, 线材/*CORD*:

24#2468 长度 $1500 \pm 30\text{mm}$, DC 头 $5.5 \times 2.1 \times 10 \pm 1\text{mm}$, 如样品,



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9、铭牌/LABEL:



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10、包装说明/PACKING :

单个产品白盒包装 , 尺寸 100*80*30mm ,

在装外箱 44.5*37.5*17.5CM

每箱数量 100 个

