

# 承认书

*SPECIFICATION FOR APPROVAL*

*Switching power Supply/开关电源*

客 户:

CUSTOMER: \_\_\_\_\_

产品描述:

DESCRIPTION: Input:200~240Vac 50/60Hz Output: 12VDC5A

机种型号:

OUR MODEL NO: \_\_\_\_\_ HXF-60A-12 (工程)

样品编号:

日期:

SAMPLENO: \_\_\_\_\_ DATE: 2016-3-4

产品颜色 SAMPLE COLOR: Black  champagne golden

(香槟色)

APPROVAL SIGNATURE/客户确认		
核准/APPROVED BY	审核/CHECKED BY	检测/TESTED BY

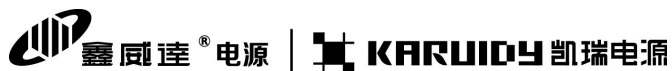
Manufacturer/制造商		
业务/SALES	核准/APPROVED BY	设计/DESIGNED BY
	何水林	郑栋平

湘潭市华鑫电子科技有限公司

Xiangtan City Huaxin Electronic Technology Co., Ltd .

地址: 中国湖南省湘潭市雨湖区高岭路 2 号

ADD: No.2,Gaoling Raod, Yuhu District, Xiang tan City, Hu nan, CHINA.



型号/Ourmodel/HXF-60A-12(工程)

客户/Customer:

日期/Date:2016-3-04

版本目录/Rev. List

版本/Rev.	日期/Date	描述/ Description	制订/Design
01	2016-3-4		郑栋平

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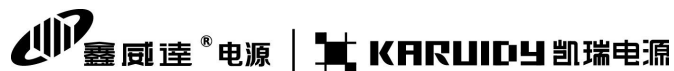
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日期/Date:2016-3-04

### 1、描述/ DESCRIPTION:

本规格书适应于 HXF-60A-12(工程) 型号的开关电源.

This specification is adapted to the HXF-60A-12(工程) models of switching power supply.

### 2、输入特性/INPUT CHARACTERISTICS:

2.1 额定电压/Rated Input Voltage:200Vac~240Vac

2.2 额定输入频率/ Rated Input Frequency:50/60Hz.

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 0.6A.

0.6Amps 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 60A. 60Amps Max. 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 3.5mA.

3.5mA Max.At240Vac input.

### 3、输出特性/OUTPUT CHARACTERISTICS:

3.1 输出功率/Power output

电压 Voltage	最小负载 Min. Load	额定负载 Rated. Load	峰值功率 Peak@10mS	输出功率 Output power
12VDC	0A	5A	72W	60W

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



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电压 Voltage	最小负载 Min. Load	额定负载 Rated. Load	线性调整 Line Regulation	负载调整 Load Regulation
12VDC	0A	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.

电压 Voltage	最大纹波/最大噪音 Ripple and Noise(Max.)
12VDC	200mV 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 2S.

2Second Max.at 220Vac input and output Max.load.

### 3.5 上升时间/Rise time:

当输入 220Vac 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 效率/Efficiency:

当 220Vac 输入电压时,满载计算效率,最小80%。

80%Min, At220Vac input voltage and full load calculation efficiency.

### 3.7 过冲/Overshoot:

在电源开启或关闭的时候,最大 5%.

5% Max. When power supply at turn or turn off.

## 4、保护功能/PROTECTION FUNCTION:

### 4.1 短路电路保护/Short circuit protection:

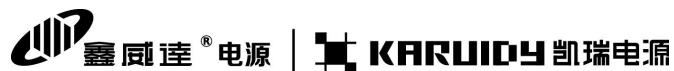
该电源供给器在短路解除时能正常工作恢复.

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.



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## 5、环境要求/ENVIRONMENTAL REQUIREMET:

### 5.1 工作温度/Operating Temperature:

-20℃-40℃,满载,正常工作.

-20℃ to 40℃,Full load, Normal operation.

### 5.2 储藏温度/Storage Temperature:-20℃ to 80℃

带外壳/With package

### 5.3 工作湿度/Relative Humidity:

5%(0℃)~90%(40℃),72 小时,满载,正常工作.

5%(0℃)~90%(40℃)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/S<sup>2</sup>)

#### 2. 运输/Transportation:

IEC 721-3-2 2M2

5-9Hz,A=3.5mm

9~200Hz,加速度 Acceleration=5m/S<sup>2</sup>

200~500Hz,加速度 Acceleration=15m/S<sup>2</sup>

#### 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:

桌上型仪器作测试时为 600mm+/-10mm, 木质地板.Desktop instrument for testing

600mm /-10mm, wooden floors.

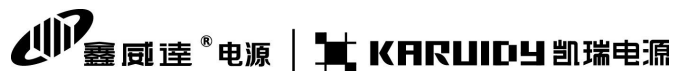
## 6、安全及 EMI 要求/SAFETY AND EMI REQUIREMENT:

### 6.1 安全:按 IEC60950 标准设计.

Safety: Design by IEC60950 standard.

### 6.2 高压/DIELECTRIC STRENGTH Hi-Pot:

初级对次级/Primary to secondary:1200Vac/10mA/60S for type test.



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初级对外壳/Primary to case:1200Vac/10mA/60S for type test.

次级对外壳/ Secondary to case:300Vac/10mA/60S for type test.

### 6.3 绝缘阻抗/Insulation resistance:

初级对次级/Primary to secondary:10M $\Omega$  min at 500V DC.

### 6.4 EMI 标准/EMI STANDARD

Designed according to the following standards/按以下标准设计:

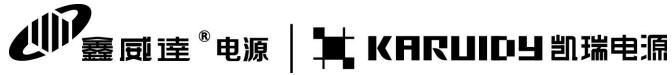
<1>.Fcc class B rules

<2>.EN55022 class B rules

<3>.GB9254-1998,GB17625.1-2003

※注： 在保证产品性能符合此承认书的条件下，本公司有权对产品电路和元器件进行更改优化。

Conditions to ensure product performance in line with this acknowledgment, the Company reserves the right to make changes to optimize product circuits and components.



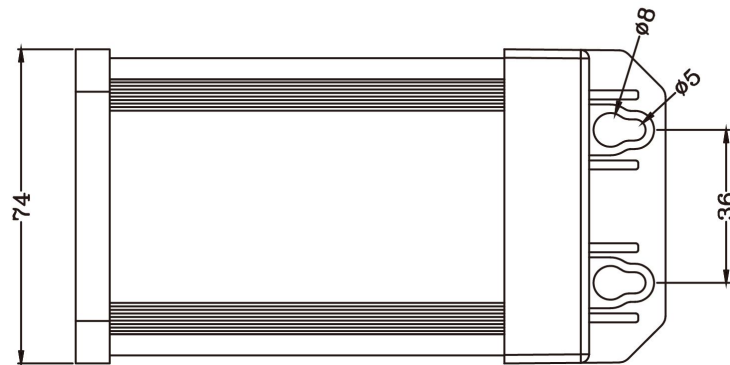
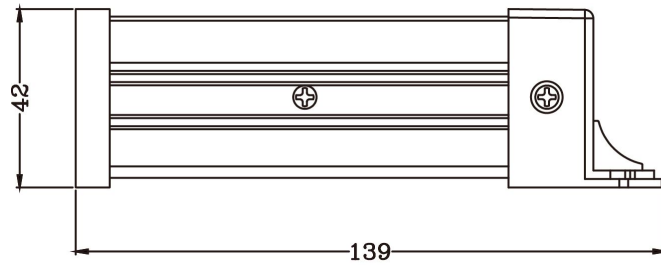
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7、 结构参数/MECHANICAL REQUIREMENT:

1.单位: mm





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9、铭牌附图/LABEL

**标签内容，及尺寸要求**

激光打印

备注：工程款  
专用标签

LED防雨开关电源  
型号：HXF-60A-12

主要技术参数  
输入电压：AC 200-240V  
输出电压：DC 12V  
输出电流：5A  
基本性能：具有短路保护、过载  
保护功能

**警告**  
内有高压、非专业人士  
请勿自行拆卸

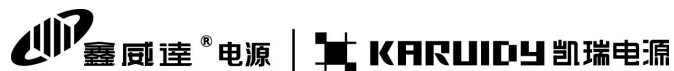
湘潭市华鑫电子科技有限公司

检验合格：xxxxx

(注意：接线时将黄直往上接↑，接线时将绿直往下接↓)

	接线端子标签
	尺寸：48x6x0.2mm
	日期保修标签
	尺寸：40x12x0.2mm
	专利标签
	尺寸：30x20x0.2mm





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10、包装说明/PACKING:

项目/分类	内包装		外包装
	包装袋	包装盒	包装箱
尺寸规格 (mm)		145X82X47	450X344X348
材质		纸黄盒	纸箱
数量 (PCS)		84PCS	1PCS
型号 (编码)		YZH088	YZ064
<p>产品包装示意图:</p>			
备注: 1.大外箱贴3条胶带横竖各打一条绑带。		装箱数量	84PCS
		摆放层数	4层
		一层数量	21PCS