IDEAL POWER
experts in power conversion

规　　格　　书

SPECIFICATION　FOR　APPROVAL

电源

power supply

客　户/CUSTOMER:

产品描述/ESCRIPTION：24V　0.5A

机种型号/OUR MODEL NO:59RKPO-UK2400500CD-2

物料编号/SAMPLE NO ：　　日期/DATE：2019.07.17

产品颜色/*SAMPLE COLOR*　　*Black*　（■）　　*White*

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

制造商Manufacturer/		
业务/*SALES*	核准/*APPROVED BY*	设计/*DESIGNED BY*
蒋亮兵	李宽	何嘉琦

版本目录/Rev. List			
版本/Rev.	日期/Date	描述/ Description	制订/Design
A0	2019/7/17	新版本/New Rev.	

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1、描述/ DESCRIPTION:

本规格书适应于59RKP0-UK2400500CD-2型号的 电源.

The purpose of the document is to specify the functional requirements of model 59RKP0-UK2400500CD-2 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0.3A.

0.3Amps 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20A.

20 Amps Max. Cold start at 240Vac input, with rated load and 25℃ ambient.

0.25mA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.

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*	输出功率 *Output Power*
24Vdc	0.1A	0.5A	12W

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

电压 *Voltage*	最小电压 *Min. Voltage*	最大电压 *Max. Voltage*	线性调整 *Line Regulation*	负载调整 *Load Regulation*
24Vdc	22.8V	25.2V	±1%	±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连接到电源的输出端,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	300mV 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.

3Second 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5 mS .

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

3.7效率/*Efficiency:*

当115/230Vac输入电压时，满载效率，最小82.96%。

82.96% Min, At 115/230Vac input voltage, full load calculation

4、保护功能/PROTECTION FUNCTION

4.1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.

4.2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%.

4.3输出短路保护/*Output short circuit protection:*

当输出负载短路时,电源将保护,故障排除后能恢复正常工作.

When the output load short-circuit, the power supply will protect, troubleshooting can resume normal work.

5、环境要求/*ENVIRONMENTAL REQUIREMET:*

5.1 工作温度/*Operating Temperature:*

0℃-40℃,满载,正常工作.

0℃ to 40℃,Full load, Normal operation.

5.2 储藏温度/*Storage Temperature:-10℃ 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/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*

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..

6、安全要求/*SAFETY REQUIREMENT:*

6.1 安全:符合标准 TUV/GS CE

Safety: accord with TUV/GS CE

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

<1>.Fcc part15

<2>.EN55015

7、 结构参数/MECHANICAL REQUIREMENT:

7.1 外壳/Enclosure:

外壳尺寸: （单位MM）L 110 x W 52.5 x H 38

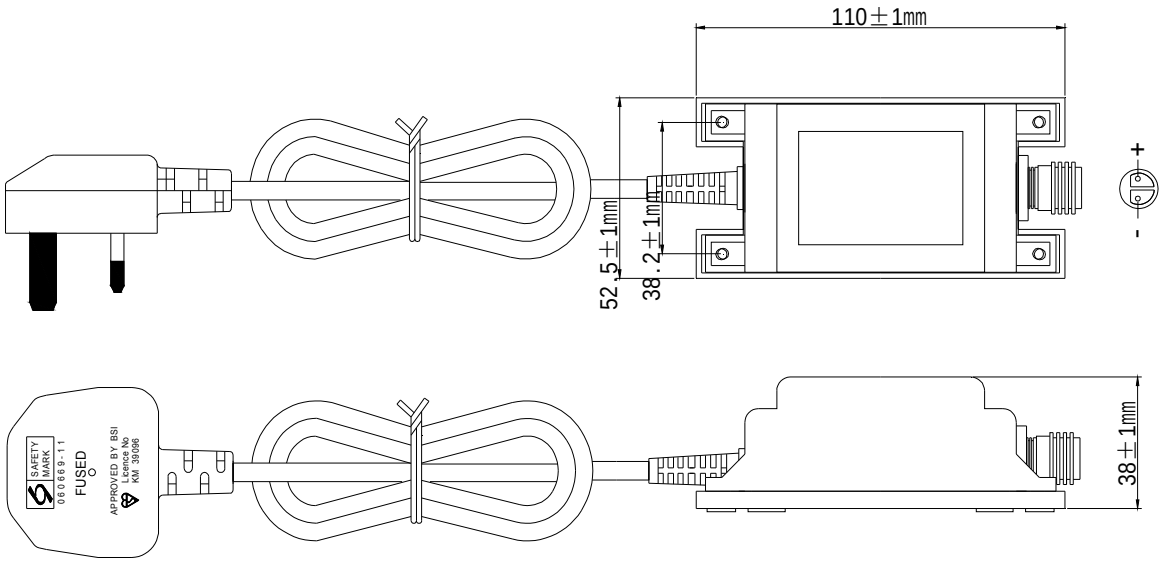
The power supply size: L 110 x W 52.5 x H 38

7.2 输入：BS插头 + 1.5米 H05RN-F 2*1.0mm²

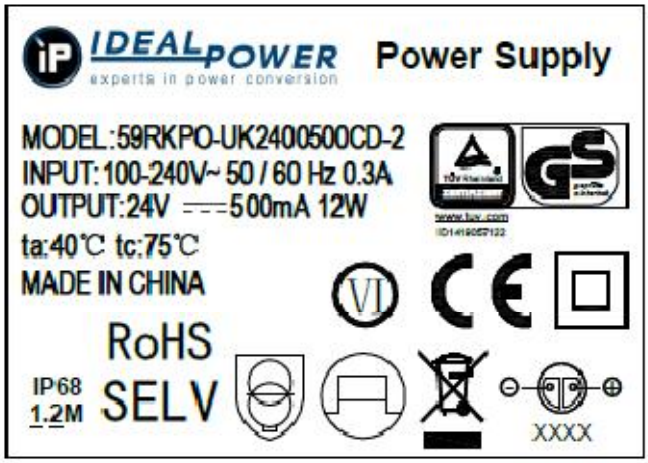
Input: BS Plug + 1.5米 H05RN-F 2*1.0mm²

7.3 输出：防水母座

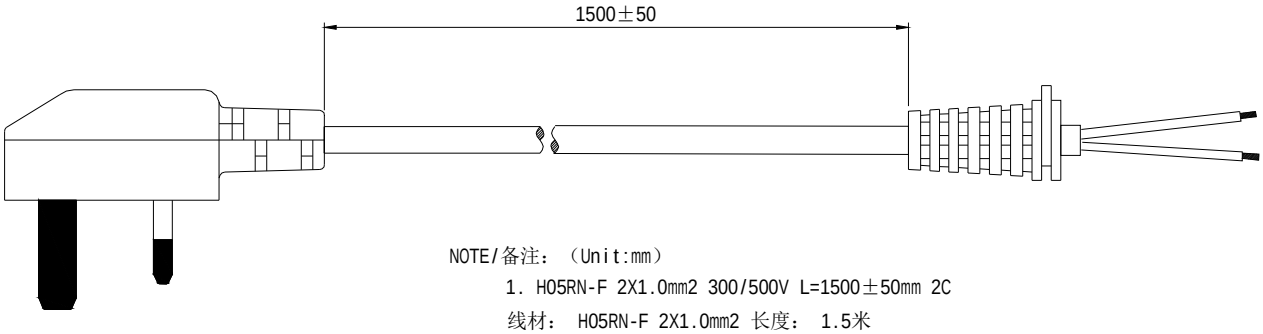
Output: Waterproof Connector



8、铭牌/LABEL



9、线材/CORD



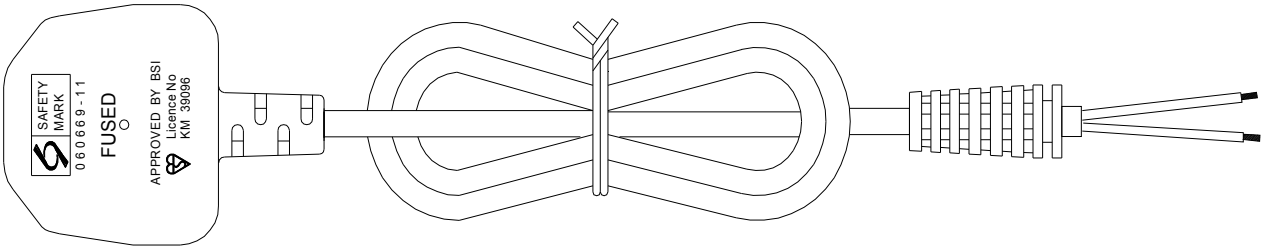
NOTE/备注：（Unit:mm）

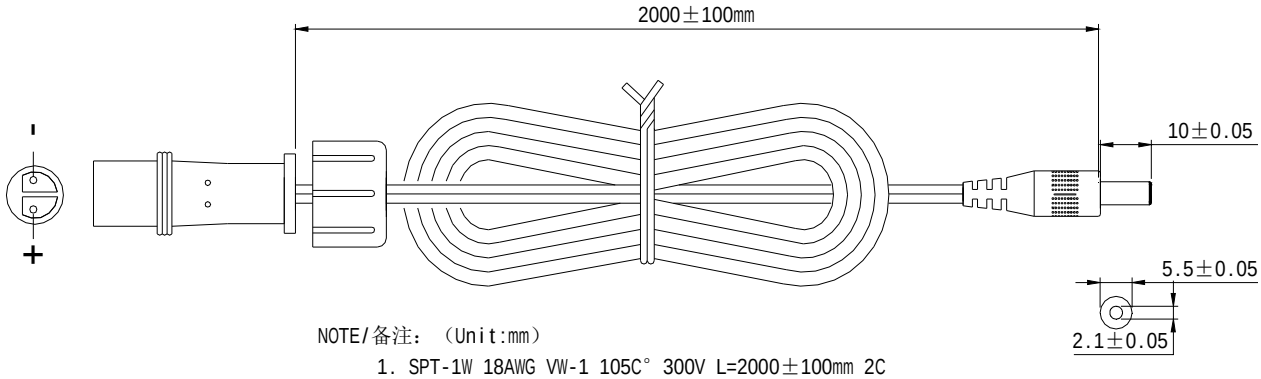
1. H05RN-F 2X1.0mm2 300/500V L=1500±50mm 2C

线材： H05RN-F 2X1.0mm2 长度： 1.5米

2. BS Plug 3PIN Fuse:3A/250V~

插头 ：英规插头 3PIN 保险丝 3A/250V





NOTE/备注：（Unit:mm）

1. SPT-1W 18AWG VW-1 105C° 300V L=2000±100mm 2C

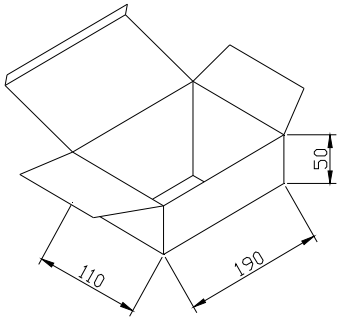
线材： SPT-1W 18# 长度： 2米

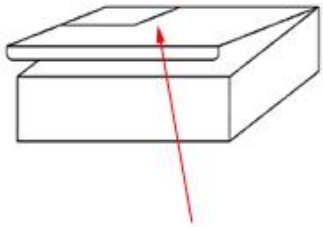
2. The polarity:inner-positive,outer-negative

极性：内正外负

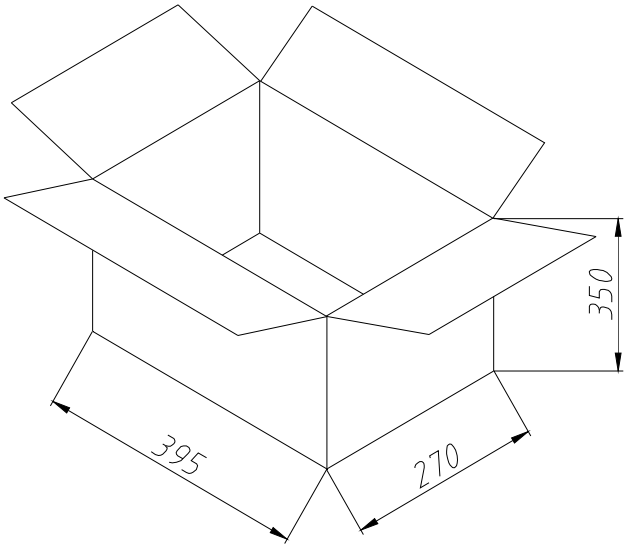
3. DC jack:5.5*2.1*10mm

10、包装说明/*PACKING:*





59RKP0-UK2400500CD-2



白盒尺寸/BOX SIZE:190*110*50mm
材质/Material:350G
纸箱尺寸/CARTON SIZE:395*270*350mm
材质/Material:K=K
30PCS白盒装一箱/ Inner box 30pcs/crton