

KYSAN ELECTRONICS

info@kysanelectronics.com

型号/MFG: RKP-UL-12V3.0A-ST

产品编号/SKU: 4030173

日期/Date: 12.08.2025

制订/Design:

1、描述/ *DESCRIPTION:*

本规格书适应于RKP-UL-12V3.0A-ST型号的电源.

The purpose of the document is to specify the functional requirements of model RKP-UL-12V3.0A-ST Class 2 power supply .

2、输入特性/ *INPUT CHARACTERISTICS:*

2.1输入电压/ *Input Voltage:*

额定电压/ *Rated Voltage:120Vac*

调整范围/ *Variation Range:108-132Vac*

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0.8A.

0.8Amps 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70A.

70 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120Vac时, 最大漏电流为0.25mA.

0.25mA Max. At 120Vac input.

KYSAN ELECTRONICS

info@kysanelectronics.com

型号/MFG: RKP-UL-12V3.0A-ST

产品编号/SKU: 4030173

日期/Date: 12.08.2025

制订/Design:

3、输出特性/ *OUTPUT CHARACTERISTICS*

3.1输出功率(Power Output);

电压	最小负载	额定负载	输出功率	
<i>Voltage</i>	<i>Min. Load</i>	<i>Rated. Load</i>	<i>Output Power</i>	
12Vdc	0.1A	3A	36W	

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

电压	最小电压	最大电压	线性调整	负载调整
<i>Voltage</i>	<i>Min. Voltage</i>	<i>Max. Voltage</i>	<i>Line Regulation</i>	<i>Load Regulation</i>
12Vdc	11.4V	12.6V	±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	最大纹波/最大噪音
<i>Voltage</i>	<i>Ripple and Noise (Max.)</i>
+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.

3.Second 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115Vac输入电压时, 平均负载效率, 最小80%。

80% Min, At 115Vac input voltage, The average load efficiency

KYSAN ELECTRONICS

info@kysanelectronics.com

型号/MFG: RKP-UL-12V3.0A-ST

产品编号/SKU: 4030173

日期/Date: 12.08.2025

制订/Design:

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℃-30℃, 满载, 正常工作.

0℃ to 30℃, 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%(-20℃)~90%(40℃), 72小时, 满载, 正常工作.

5%(-20℃)~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.

KYSAN ELECTRONICS

info@kysanelectronics.com

型号/MFG: RKP-UL-12V3.0A-ST

产品编号/SKU: 4030173

日期/Date: 12.08.2025

制订/Design:

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 ETL 1310

Safety: accord with ETL 1310

6.2 高压/*DIELECTRIC STRENGTH Hi-Pot:*

初级对次级/*Primary to secondary:2000Vac5mA/3S for type test.*

6.3 绝缘抗阻/ *Iusulation resistance:*

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

6.4 EMI标准/*EMI STANDARD*

Meets the Limits of/测试符合

<1>. Fcc part15

<2>. EN55015

KYSAN ELECTRONICS

info@kysanelectronics.com

型号/MFG: RKP-UL-12V3.0A-ST

产品编号/SKU: 4030173

日期/Date: 12.08.2025

制订/Design:

7、 结构参数/*MECHANICAL REQUIREMENT:*7.1 外壳/*Enclosure:*

外壳尺寸: (单位MM) 79*68*56.6mm

*The power supply size: 79*68*56.6mm*

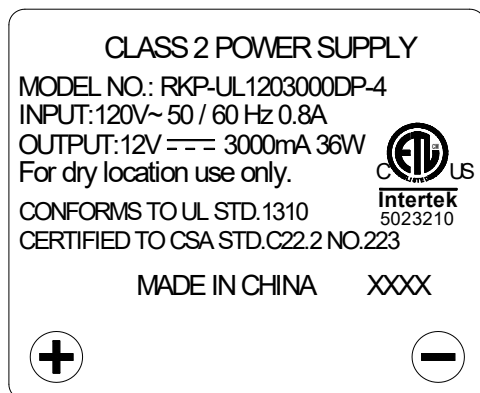
7.2 输入: 插墙式

Input: Direct Plug In

7.3 输出: 端子

Output: Connector

8、 铭牌/LABEL



KYSAN ELECTRONICS

info@kysanelectronics.com

型号/MFG: RKP-UL-12V3.0A-ST

产品编号/SKU: 4030173

日期/Date: 12.08.2025

制订/Design:

9、实物图/*ACTUAL PICTURE*:

