
SPECIFICATION

产品规格书

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Model No.: DEK-55

Description: POWER SUPPLY

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1. Electrical Specification 电气规格:

1.1 Table 1 Input Electrical Characteristics (输入特性)

Input voltage range 输入电压	90Vac to 264Vac
Normal voltage range 标称输入	100Vac to 240Vac
Frequency range 频率范围	50Hz/60Hz±5%
Max input ac current 最大输入电流	0.8Amax at full load condition
Inrush current (cold start) 浪涌电流	50Atyp peak, 220Vac
Efficiency(Peak @full load) 效率	90%min at 230Vac input
Leakage Current 泄漏电流	Less Than 0.5mA, 240Vac input
Input Fuse 输入保险	T3.15AH/250Vac

1.2 Output Electrical Characteristics (输出特性)

1.2.1 Table 2 Output Voltage & Current Regulation (输出电压电流调整率)

Output Voltage 输出电压	Current Regulation 电流调整率	Constant current A 恒流档 A	Constant current B 恒流档 B	Constant current C 恒流档 C
+27~37V	±5%	1.0A	1.25A	1.5A

1.2.2 Table 3 DC Output Ripple & Noise. (输出纹波和噪声)

Output current	Ripple & Noise (Max.)
1.0A	40mApk-pk@25℃
1.25A	40mApk-pk@25℃
1.5A	40mApk-pk@25℃

Note: 1)Ripple & Noise test: Ripple & Noise bandwidth is set to 20MHz.

纹波和噪声测试: 纹波和噪音带宽设置在 20 兆赫兹。

2)Use a 0.1uF ceramic capacitor in parallel with a 10uF electrolytic capacitor at output connector terminals for ripple & noise measurements.

输出端并联一个 0.1uF 的陶瓷电容和一个 10uF 的电解电容来测试纹波和噪声。

1.2.3 Table 5 Hold-Up Time (输出保持时间)

Output current	120Vac input	220Vac input
1.0A	≥10 mS	≥10 mS
1.25A	≥10 mS	≥10 mS
1.5A	≥10 mS	≥10 mS

1.2.4 Table 6 DC Output Overshoot During Turn-On & Turn-Off (输出超调)

Output Channel	Overshoot voltage(V)超调电压	
	Turn-on 开机	Turn-off 关机
1.0A	≤5%	≤5%
1.25A	≤5%	≤5%
1.5A	≤5%	≤5%

Note: All of dc output current from Min. to Max. 测试时负载范围: 最小到最大。

1.2.5 Table 7 DC output voltage rise time (输出上升时间)

Output current	120Vac input &Full Load	220Vac input &Full Load
1.0A	≤50 mS	≤50 mS
1.25A	≤50 mS	≤50 mS
1.5A	≤50 mS	≤50 mS

Note: The rise time measured is when the output voltages rise from 10% to 90% of specified output voltage V_{out} observed on the channel waveform.

上升时间为输出电压从 10%上升到 90%的时间。

1.3 Protection (保护功能)

1.3.1 Table 8 DC Output Over Voltage Protection (输出过压保护)

Output Current	Over Voltage	Comments
1.0A	≥40.0 V_{typ}^*	Shutdown 锁机
1.25A	≥40.0 V_{typ}^*	Shutdown 锁机
1.5A	≥40.0 V_{typ}^*	Shutdown 锁机

Note: The over Voltage protection should be tested at other load rating.

过压保护测试是在其它额定负载时测试。

1.3.2 Table 9 DC Output Short Circuit Protection (输出短路保护)

Output Current	Comments
1.0A	Hiccup 保护后重起
1.25A	Hiccup 保护后重起
1.5A	Hiccup 保护后重起

2. Isolation (绝缘性能)

2.1 Table 10 (绝缘阻抗)

Input To Output	DC500V 8MΩmin (at room temperature)
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2.2 Table 11 (绝缘耐压)

Input To Output	4000Vac 50Hz 1minute ≤10mA
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Note: Open FG and Output return. 交流地和输出负极要断开。

3. Safety (安全规格)

The power supply shall comply with the following criterion:

电源安全性满足下列标准:

- 1) UL60950
- 2) EN60950
- 3) GB4943-1995

4. EMC (电磁兼容性)

4.1 EMI (电磁干扰)

The power supply shall comply with the following criterion:

电源电磁干扰满足下列标准:

1) Conduction Emission : (传导干扰度)

*EN55013/EN55022, CLASS B

*GB13837-2003, CLASS B

*CISPR13:2001/FCC PART15 CLASS B

2) Radiated Emission : (辐射干扰度)

*EN55013/EN55022, CLASS B

*GB13837-2003, CLASS B

*CISPR13:2001/FCC PART15 CLASS B

Note: The power board should be assembled in customer product to test for passing the above criterion.需配合用户整机通过上述标准。

4.2 EMS (电磁抗扰)

The power supply shall comply with the following criterion:

电源电磁抗扰满足下列标准:

1) ESD (静电抗扰度)

*GB17626.2-1998/IEC61000-4-2 Lever 3

2) EFT (脉冲群抗扰度)

*GB17626.4-1998/IEC61000-4-4 Lever 3

3) SURGE (雷击浪涌)

*差模: $\pm 4\text{KV}$

共模: $\pm 4\text{KV}$

性能判据:允许出现短时的功能丧失,但测试结束能够自动或者人工干预下恢复正常。

参考标准:GB17626.5-1998/IEC61000-4-5 Lever **B**

4) DIP (电压跌落)

*GB17626.11-1998/IEC61000-4-11 Class B/C

5. Environmental Requirement (工作环境)

5.1 Temperature (环境温度)

* Operating 工作温度: -30°C to $+70^{\circ}\text{C}$.

* Storage 存储温度: -40°C to $+80^{\circ}\text{C}$.

5.2 Humidity (环境湿度)

* Operating 工作: From 10%to90% relative humidity (non-condensing).

* Storage 存储: From 5 to 95% relative humidity (non-condensing).

5.3 Altitude (海拔高度)

* Operating: to10,000 ft.

* Storage: to 20,000ft.

5.4 Cooling Method (冷却方式)

* Ventilation cooling . 风道自然冷却

5.5 Vibration (振动耐受)

* 10-55Hz, $19.6\text{m/s}^2(2\text{G})$, 20minutes each along X, Y and Z axis.

5.6 Shock (冲击耐受)

* $49\text{m/s}^2(5\text{G})$, 11ms, once each X, Y and Z axis.

5.7 防护等级:

IP67

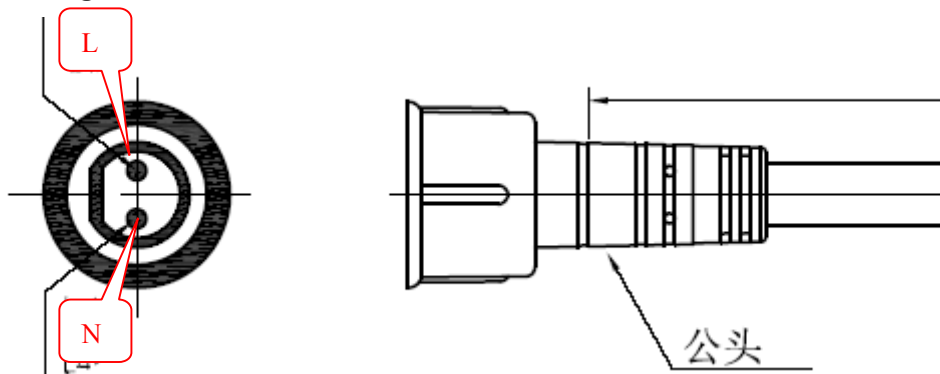
6. Dimension (物理尺寸)

*163mm X 39mm X 39mm (长 L * 宽 W * 高 H).

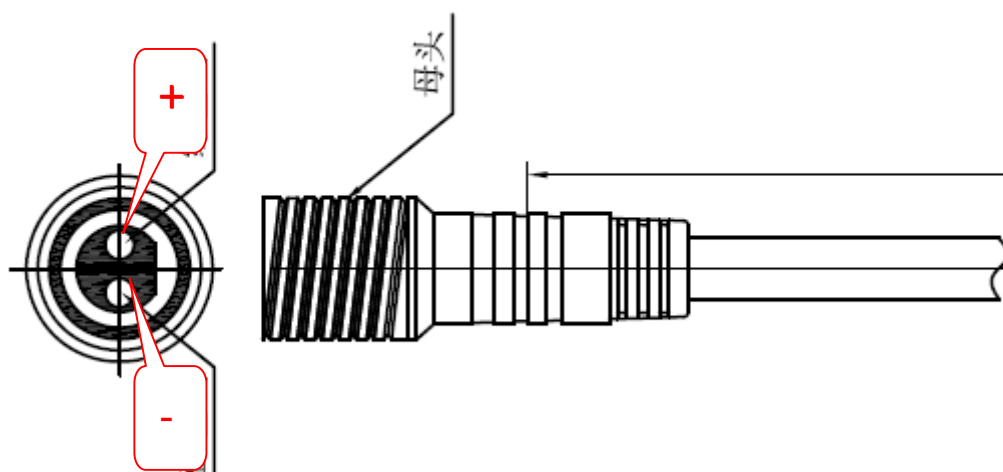
7. Weight (重量) : 500 g

8. Pin Connection (连接器脚位定义)

8.1 AC INPUT

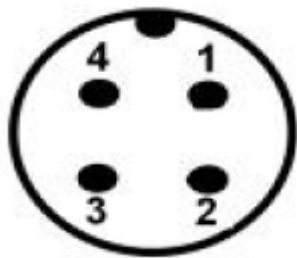


8.2 DC OUTPUT



8.3 CURRENT CONTROL TERMINAL

8.3.1 TERMINAL:



8.3.2 CONTROL MODE 控制方式:

将相对应的 PIN 脚与地线(PIN4)相接,即可得到相应的控制功能:其中“1”表示此脚悬空,“0”表示此脚接地(PIN4).

Table 12

Pin1	Pin2	Pin3	输出状态
1	1	1	恒流 1A 全功率输出
0	1	1	恒流 1A 全功率输出 6 小时+半功率
1	1	0	恒流 1.25A 全功率输出
0	1	0	恒流 1.25A 全功率输出 6 小时+半功率
1	0	1	恒流 1.5A 功率输出
0	0	1	恒流 1.5A 功率输出 6 小时+半功率

9. Power Supply Mounting （安装尺寸）

