

WOA50-75 B 系列 AC/DC 便装一体化电源 技术指标书

Ver:1.0

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典型性能 Features

- ◆ 50~75 瓦功率输出
- ◆ 宽电压输入，交直流两用
- ◆ 过热保护，输出短路保护
- ◆ 高可靠性，高隔离耐压
- ◆ 金属外壳，安装方便（接线端子出线方式）
- ◆ 适用于电力、煤矿、工控、仪表等行业

电气特性 Electrical Specifications

| 输入特性 Input | Min | Type | Max | Notes |
|----------------------------------|--|-----------------------|--------------------|----------------------------------|
| 输入电压范围 Input Voltage Range | 176Vac (240Vdc) | 220Vac (300Vdc) | 264Vac (370Vdc) | |
| | 100Vac (140Vdc) | 220Vac (300Vdc) | 264Vac (370Vdc) | 输入电压宽范围，尾缀加W |
| 输入频率 Input Frequency | 45Hz | 50/60Hz | 65Hz | |
| 输出特性 Output | Min | Type | Max | Notes |
| 输出电压精度 Set point Accuracy | | | ±3% | |
| 负载效应 Load Regulation | | | ±1% | |
| 源效应 Line Regulation | | | ±1% | |
| 纹波噪声（注1） Ripple and Noise | | | 50mV | Vo≤5V Other Vo≥36V |
| | | | 150mV | |
| | | | 200mV | |
| 动态响应 Dynamic Response | ±5% Vo Pk deviation 400µs settling time | | | 25~50~25% Load 75~50~75% Load |
| 短路保护 Short-Circuit Protection | 长期短路自恢复 Continue Automatic Recovery | | | |
| 综合特性 General | Min | Type | Max | Notes |
| 隔离电压（注2） Isolation Voltage | | | 2500Vac | 输入与输出 Input-Output |
| | | | 2000Vac | 输入与壳 Input-Case |
| | | | 500Vac | 输出与壳 Output-Case |
| 开关频率 Switching Frequency | 65KHz | | 200KHz | |
| 平均故障间隔时间 MTBF | | 5×10 ⁵ Hrs | | Mil HDBK 217F Tc=25°C |
| 工作壳温 Case Temperature | 工业级 | -40°C | +85°C | |
| | AD、AG级 | -40°C | +90°C | |

| | | | | |
|-------------------------------------|---|--|--------|--|
| 储存温度 Storage Temperature | -45°C | | +105°C | |
| 相对湿度 Relative Humidity | 5% | | 95% | |
| 传导骚扰 Conducted Emission | EN55022-2010 GB/T 24338.4-2009 GJB151B-2013 | | | |
| 静电放电 Electrostatic Discharge | GB17626.2/EN61000-4-2 Contact ±6KV | | | |
| 脉冲群抗扰度 Electrical Fast Transient | GB17626.4/EN61000-4-4 ±2KV perf. Criteria A | | | |
| 浪涌抗扰度 Surge Immunity | GB17626.5/EN61000-4-5 ±2KV perf. Criteria B | | | |

注 1: 纹波噪声采用 20MHz 带宽、平行线法测试;

注 2: 交流电压测试漏电流为 5mA, 直流电压测试漏电流为 0.5mA;

产品型号列表 Product Model List

| 型号 Models | 输入电压 范围 (Vdc) Input Voltage Range | 输出电压 (Vdc) Output Voltage | 输出电流 (A) Output current | 纹波噪声 (mv) Ripple and noise | 典型效率 Efficiency | 容性负载 (μF) Max.Capacitor Load |
|---------------------|---|------------------------------------|----------------------------------|-------------------------------------|--------------------|------------------------------------|
| WOA50-220S5B(-DB) | 176-264Vac | 5.05 | 10 | 50 | 82% | 2200 |
| WOA50-220S9B(-DB) | 176-264Vac | 9 | 5.6 | 150 | 84% | 2200 |
| WOA50-220S12B(-DB) | 176-264Vac | 12 | 4.2 | 150 | 87% | 1000 |
| WOA50-220S15B(-DB) | 176-264Vac | 15 | 3.3 | 150 | 87% | 1000 |
| WOA50-220S18B(-DB) | 176-264Vac | 18 | 2.8 | 150 | 87% | 1000 |
| WOA50-220S24B(-DB) | 176-264Vac | 24 | 2.1 | 150 | 88% | 470 |
| WOA50-220S28B(-DB) | 176-264Vac | 28 | 1.8 | 150 | 88% | 470 |
| WOA50-220S36B(-DB) | 176-264Vac | 36 | 1.4 | 200 | 87% | 220 |
| WOA50-220S48B(-DB) | 176-264Vac | 48 | 1 | 200 | 87% | 220 |
| WOA50-220S5WB(-DB) | 100-264Vac | 5.05 | 10 | 80 | 80% | 2200 |
| WOA50-220S9WB(-DB) | 100-264Vac | 9 | 5.6 | 150 | 87% | 2200 |
| WOA50-220S12WB(-DB) | 100-264Vac | 12 | 4.2 | 150 | 87% | 1000 |
| WOA50-220S15WB(-DB) | 100-264Vac | 15 | 3.3 | 150 | 87% | 1000 |
| WOA50-220S18WB(-DB) | 100-264Vac | 18 | 2.8 | 150 | 87% | 1000 |

| | | | | | | |
|---------------------|------------|-----|-----|-----|-----|------|
| WOA50-220S24WB(-DB) | 100-264Vac | 24 | 2.1 | 150 | 88% | 470 |
| WOA50-220S28WB(-DB) | 100-264Vac | 28 | 1.8 | 150 | 88% | 470 |
| WOA50-220S36WB(-DB) | 100-264Vac | 36 | 1.4 | 200 | 87% | 220 |
| WOA50-220S48WB(-DB) | 100-264Vac | 48 | 1 | 200 | 87% | 220 |
| WOA75-220S5B(-DB) | 176-264Vac | 5.1 | 12 | 80 | 81% | 4700 |
| WOA75-220S9B(-DB) | 176-264Vac | 9 | 8 | 150 | 86% | 2200 |
| WOA75-220S12B(-DB) | 176-264Vac | 12 | 6 | 150 | 86% | 2200 |
| WOA75-220S15B(-DB) | 176-264Vac | 15 | 5 | 150 | 86% | 2200 |
| WOA75-220S18B(-DB) | 176-264Vac | 18 | 4 | 150 | 87% | 2200 |
| WOA75-220S24B(-DB) | 176-264Vac | 24 | 3 | 150 | 87% | 1000 |
| WOA75-220S28B(-DB) | 176-264Vac | 28 | 2.5 | 150 | 87% | 1000 |
| WOA75-220S36B(-DB) | 176-264Vac | 36 | 2 | 200 | 87% | 470 |
| WOA75-220S48B(-DB) | 176-264Vac | 48 | 1.5 | 200 | 87% | 470 |
| WOA75-220S5WB(-DB) | 100-264Vac | 5.1 | 12 | 80 | 81% | 4700 |
| WOA75-220S9WB(-DB) | 100-264Vac | 9 | 8 | 150 | 86% | 2200 |
| WOA75-220S12WB(-DB) | 100-264Vac | 12 | 6 | 150 | 86% | 2200 |
| WOA75-220S15WB(-DB) | 100-264Vac | 15 | 5 | 150 | 86% | 2200 |
| WOA75-220S18WB(-DB) | 100-264Vac | 18 | 4 | 150 | 87% | 2200 |
| WOA75-220S24WB(-DB) | 100-264Vac | 24 | 3 | 150 | 87% | 1000 |
| WOA75-220S28WB(-DB) | 100-264Vac | 28 | 2.5 | 150 | 87% | 1000 |
| WOA75-220S36WB(-DB) | 100-264Vac | 36 | 2 | 200 | 87% | 470 |
| WOA75-220S48WB(-DB) | 100-264Vac | 48 | 1.5 | 200 | 87% | 470 |

注 3: 以上表格中仅列出典型型号, 我公司可根据客户需求信息 (包括功率、输入电压、输出电压、负载特性等) 来单独设计。

机械图及管脚说明 (Mechanical Chart、Pins) (Unit: mm)

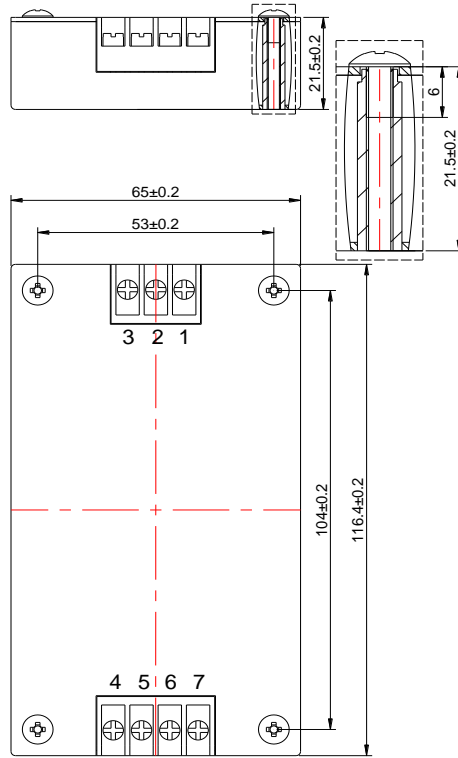


图 1 产品尾缀不带 DB

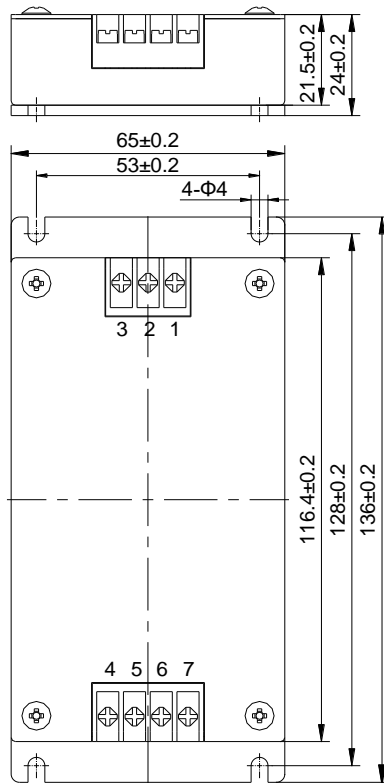


图 2 产品尾缀带 DB

| 项目 | 交流输入端 | | | 直流输出端 | | | |
|----|------------------------|------|------|-------|-----|-----|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 管脚 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 定义 | FG | ACin | ACin | +Vo | +Vo | -Vo | -Vo |
| 说明 | 壳 | 交流输入 | 交流输入 | 输出正 | 输出正 | 输出负 | 输出负 |
| 备注 | 不区分零火线, 推荐外接 5~10A 保险丝 | | | | | | |

注 4: 外壳安装定位尺寸公差按 GB/T1804-2000 F 级标准, 外型尺寸公差按 GB/T1804-2000 C 级标准;

注 5:

- 1) 端子管脚顺序依次从左往右;
- 2) 安装孔数量 4 个, 均为 U 型孔 (安装板深度约 3mm), 推荐采用 M3 螺钉固定电源机壳;