

# 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	100KHz		200KHz	
平均故障间隔时间 MTBF		5×10 <sup>5</sup> 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)

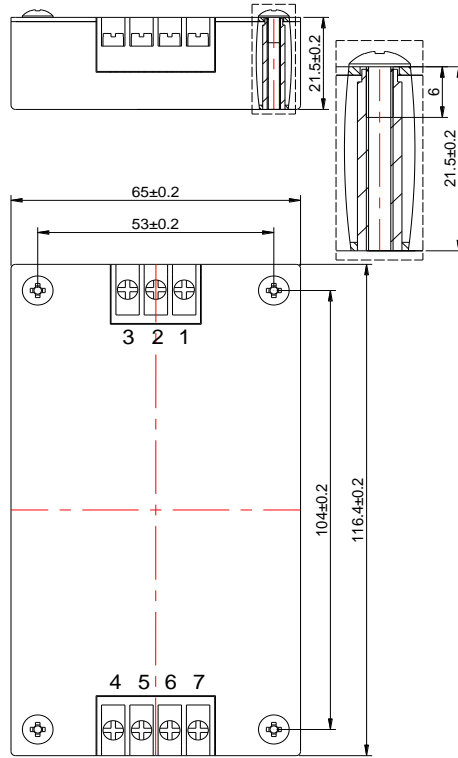


图 1 产品尾缀不带 DB

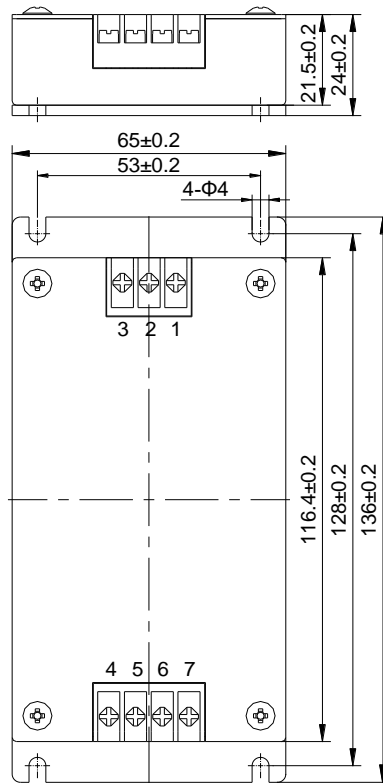


图 2 产品尾缀带 DB

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;