

**典型性能 Typical performance**

- ◆ 宽范围输入 Wide Input voltage range
- ◆ 转换效率 Typical Efficiency (典型 80%)
- ◆ 开关频率 Switching frequency: 60-100 KHz
- ◆ 过流、短路保护, 自动恢复  
Over current / Short circuit protection, Self-furbish
- ◆ 输入与输出高隔离 Input-output isolate
- ◆ PCB 板上直插式安装 Board in-line type installs
- ◆ 塑壳或金属壳 Plastic/Metal case


**技术参数**

测试条件: 如无特殊指定, 所有参数测试均在标称输入电压、纯阻性额定负载及 25°C 室温环境下测得。

**Technology parameter**

Test condition: General Nominal Line, Tc= 25 °C, Rated resistant load unless other wise specified

输入特性 Input	Min (Vac)	Nom(Vac)	Max(Vac)	Notes
输入电压 Vac	165(200Vdc)	220	265(380Vdc)	N
Input voltage	85(120Vdc)	220	265(380Vdc)	W
输入频率范围 Frequency range	47		440	
Hz				
遥控端 Remote ON/OFF	无遥控端			

**输出特性 Output**

输出电压精度 Voltage accuracy		Vo1; Vo2, Vo3;	±1.0%, ±3.0%
源效应 Line regulation	标称负载, 全电压范围	Vo1; Vo2, Vo3;	±0.2%; ±0.5%
负载效应 Load regulation	20% ~ 100%额定负载	Vo1; Vo2, Vo3;	±0.5%; ±3.0%
纹波及噪声 Ripple and noise	20MHz BM 满载		
	Vo≤5.0V, ≤80mVp-p	Vo≥48V, ≤180mVp-p	Other≤120 mVp-p
启动延迟时间 Turn-on delay time	典型值		1S

**一般特性 General**

转换效率 Efficiency	标称电压输入, 满载	Vo≤5.0V, 78%典型	Vo>5.0V, 80%典型
开关频率 Switching frequency		60-100KHz 典型	
工作温度 Operating temperature		自由空气对流 Free air	-25°C ~ +65°C
储存温度 Storage temperature			-40°C ~ +105°C
最大壳温 Max case temperature			+90°C
相对湿度 Relative humidity			10%~90%

外壳材料 case material		塑壳或金属壳 Plastic/Metal case
隔离电压 Isolation Voltage	输入与输出 Input-output 2.5KV $\leq$ 1.5mA/1min; 输入与外壳 Input- case      输入与 FG Input-FG      1.5KV $\leq$ 1.5mA/1min	
最小无故障间隔时间(MTBF)	2X10 <sup>5</sup> Hrs	

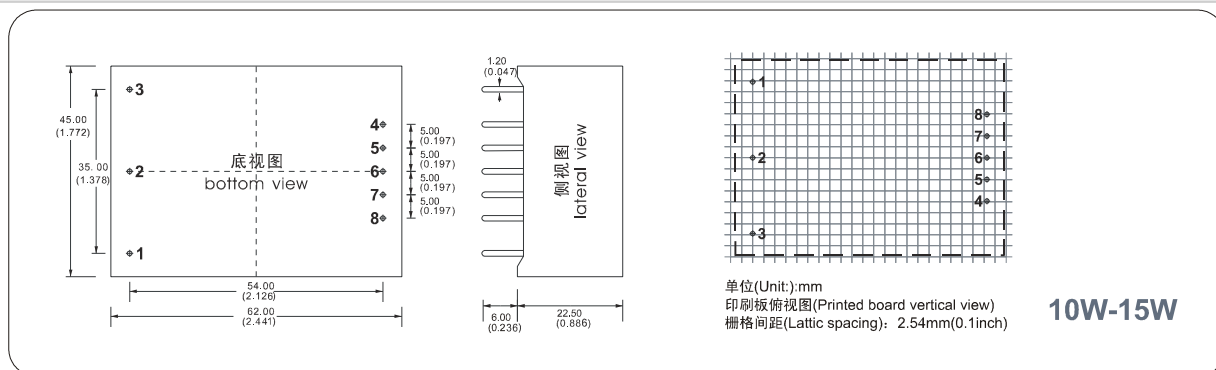
### 典型产品列表 Typical product tabulates

型号 TYPE	输入电压范围 Input voltage range	输出电压/电流 (Output voltage / current)					
		VO1		VO2		VO3	
		V	mA	V	mA	V	mA
WA10-220S05F2/F3	85~265VAC 120~380VDC	5V	2000mA				
WA10-220S12F2/F3		12V	840mA				
WA10-220S24F2/F3		24V	420mA				
WA10-220D05F2/F3		+5V	1000mA	-5V	1000mA		
WA10-220D12F2/F3		+12V	420mA	-12V	420mA		
WA10-220D24F2/F3		+24V	210mA	-24V	210mA		
WA15-220S05F2/F3		5V	3000mA				
WA15-220S12F2/F3		12V	1250mA				
WA15-220S24F2/F3		24V	625mA				
WA15-220D05F2/F3		+5V	1500 mA	-15V	1500 mA		
WA15-220D12F2/F3		+12V	625mA	-12V	625mA		
WA15-220D24F2/F3		+24V	310mA	-24V	310mA		

注：因篇幅有限，以上只是部分产品列表，若需列表以外产品，请与本公司销售部联系。

due to space limitations ,the above list is only for some products, If other than a list of products, please contact the Company's sales department.

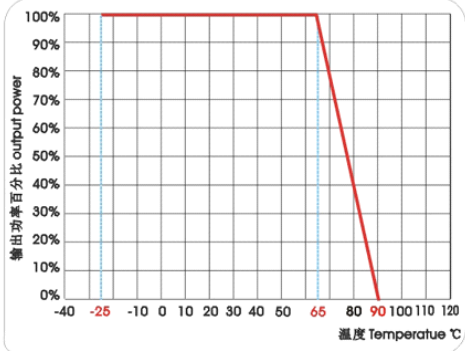
### Typical products tabulates/典型产品列表



### 封装尺寸 Mechanical Data

封装代号	L x W x H	
F2/F3	62.0 x 45.0 x 22.5 mm	2.441 x 1.772 x 0.885inch

### 温度曲线图 Temperature graph



### 管脚定义 Pin Assignments

管脚说明	1	2	3	4	5	6	7	8
单路 (S)	FG	AC(N)	AC(L)	+Vo	NP	NP	NP	GND
双路 (D)	FG	AC(N)	AC(L)	+Vo1	NP	COM	NP	-Vo2

注意：电源模块的各管脚定义如与选型手册不符，应以实物标签上的标注为准。

Note: The power modules such as the definition of the pin does not match with the hand book, please refer to the actual item.