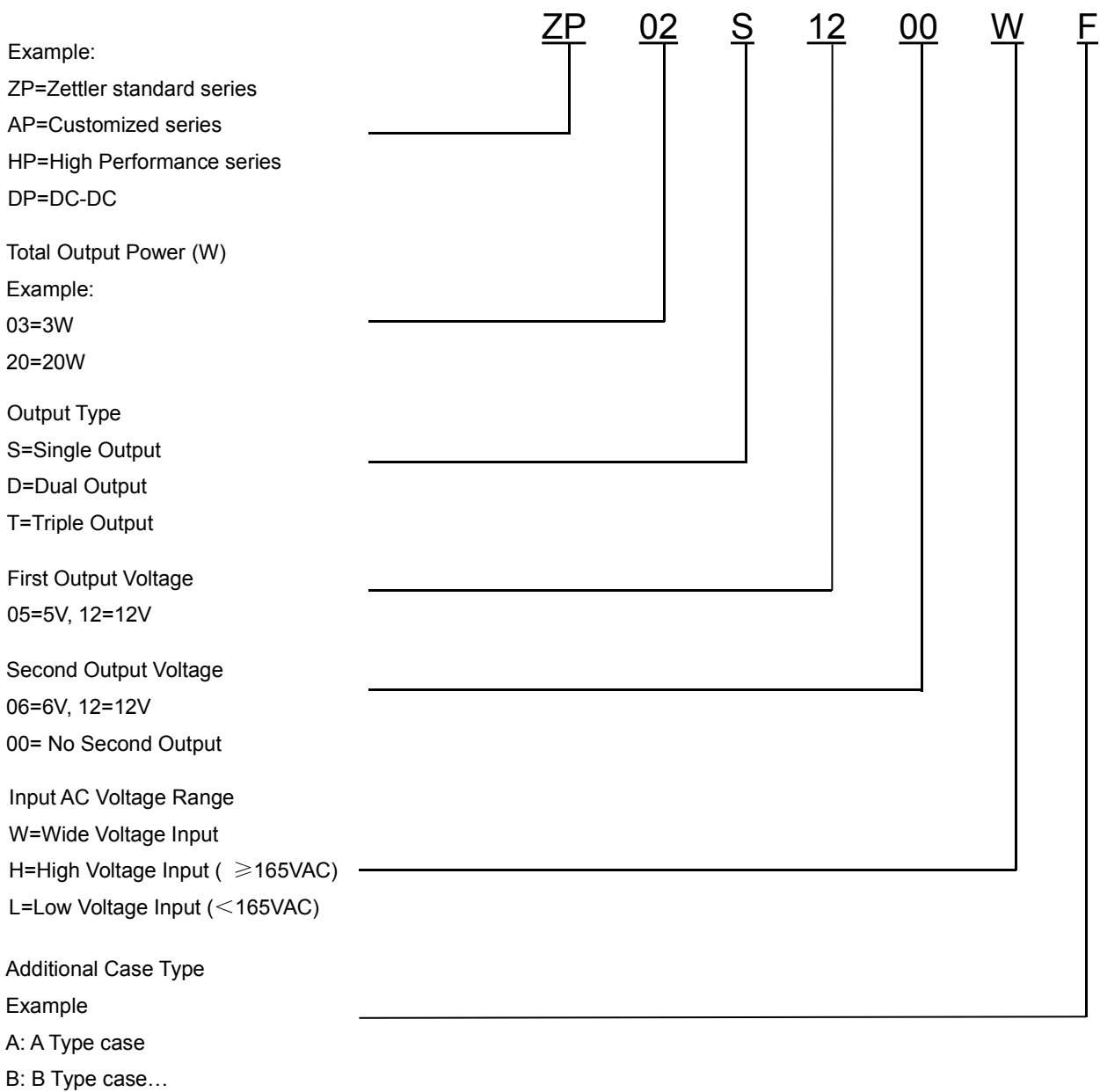


### ORDERING CODE (命名规则)



**FEATURES (产品特点)**

- PCB mounted switching Power module
- AC input voltage range: 85VAC~265VAC
- DC input voltage range: 100VDC~370VDC
- Ambient temperature range:-25°C~80°C
- Storage temperature range:-25°C~85°C
- Leakage current (input :265VAC):<0.1mA
- Isolation voltage: input –Output $\geq$ 3000Vac 60S
- Insulation Resistance: Input –Output 500VDC $\geq$ 100M Ohms
- MTBF(at 25°C 70%RH environment):>300000hrs
- Compact size, easy installation
- High efficiency Low standby power consumption, green environmental protection function
- Built-in output overcurrent protection, over-voltage protection, short circuit protection
- Built-in EMI filter components, comply with the EN55032 class B standard
- Insulation: class II

**APPLICATIONS (应用)**

This series could be widely applied in the LED, light control, Instrument, smart home and other home appliances.

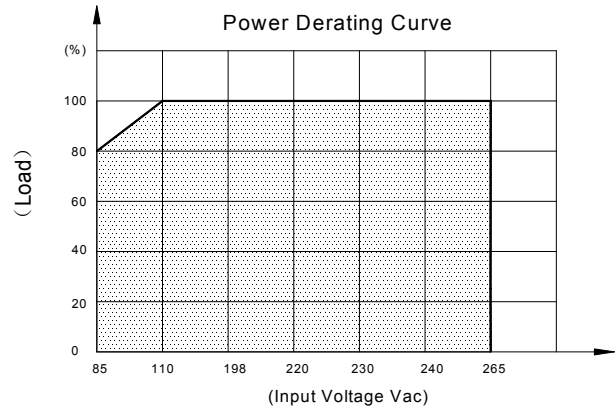
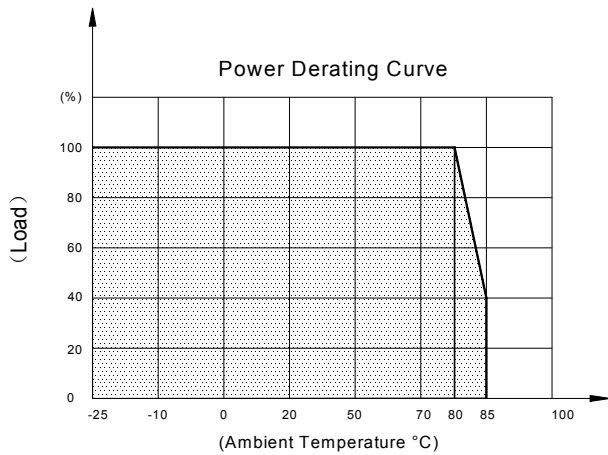
**MODEL LIST (型号列表)**

Part No.	Output Power	DC Voltage	Rated Current	Efficiency 230VAC, % Typ.	Ripple &Noise (max)	Ambient TEMP(°C)	Weight	Certificate
								TUV
ZP02S0300WF	2W	3.3Vdc	606mA	65%	500mV	80	16.5g	●
ZP02S0500WF	2W	5 Vdc	400mA	70%	500mV	80	16.5g	●
ZP02S0600WF	2W	6 Vdc	333mA	70%	500mV	80	16.5g	●
ZP02S0700WF	2W	7.5Vdc	266mA	70%	500mV	80	16.5g	●
ZP02S0900WF	2W	9Vdc	222mA	70%	500mV	80	16.5g	●
ZP02S1200WF	2W	10Vdc	166mA	70%	350mV	80	16.5g	●
ZP02S1500WF	2W	12Vdc	133mA	70%	350mV	80	16.5g	●
ZP02S1800WF	2W	15Vdc	111mA	70%	350mV	80	16.5g	●
ZP02S2400WF	2W	18Vdc	83mA	70%	350mV	80	16.5g	●

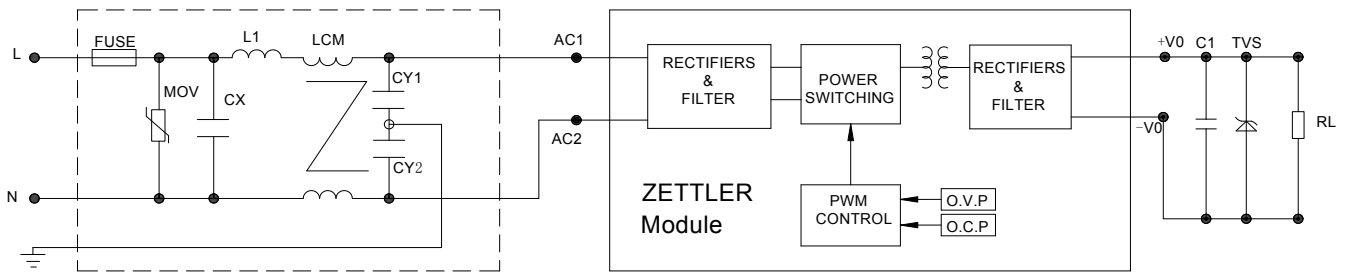
### ELECTRICAL SPECIFICATION (电性能参数)

Model No. / 型号		ZP02SXX00WF		
Input 输入参数	Rate Voltage / 额定电压	90-240VAC		
	Input Voltage Range / 输入电压范围	85-265VAC or 100~370VDC		
	Frequency (Hz) / 输入频率范围	47-63 Hz		
	Current (Full load) / 输入电流	115VAC	230VAC	
		25mA	18mA	
	Inrush Current (<500us) / 冲击电流	6A max.	10A max.	
	No Load Loss / 待机功耗	0.3W Max @230VAC		
HOT PLUG / 热拔插	Unavailable			
Output 输出参数	Voltage (V) / 输出电压	Refer to "Model List"		
	Current (mA) max. / 输出额定电流	Refer to "Model List"		
	Voltage Accuracy / 输出电压精度	0-10%: $\pm 7\%$ / 10%-100% : $\pm 5\%$		
	Line Regulation / 线性调节率	$\pm 2\%$		
	Load Regulation / 负载调节率	$\pm 3\%$		
	Minimum Load (mA) / 最小负载	0		
	Ripple & Noise / 输出纹波	Refer to "Model List"		
	Efficiency (typ.) / 工作效率	Refer to "Model List"		
	Set-up Time / 开机时间	3S		
	Hold up Time / 掉电保持时间(典型值)	168ms/230Vac ,59ms/115Vac		
Protection 保护特性	Over Current Protection / 过流保护	$\geq 120\%I_o$ Self-recovery		
	Short Circuit Protection / 短路保护	Hiccup ,continuous ,short capable, self-recovery		
Environment 环境	Operating Temperature / 工作温度	-25°C...+80°C @Free air convention		
	Operating Humidity / 工作湿度	10-90% RH		
	Storage Temperature / 存储温度	-25°C...+85°C		
	Storage Humidity / 存储湿度	5-95% RH		
	Temperature Coefficient/温度漂移系数	$\pm 0.05\%/^{\circ}\text{C}$ (0~85°C)		
Physical 外观结构	Case Material / 外壳材质	Plastic (UL 94V-0 rated)		
	Weight / 产品净重	16.5g (ref.)		
Safety & EMC 安全认证及 电磁兼容	Dielectric Strength / 绝缘强度	3600V/50HZ 5mA 1min (OR 4200VDC/2S) (I/P-O/P)		
	Safety Standards / 安全标准	Compliance With EN60950-1, UL60950-1, UL 62368-1		
	EMI / 电磁兼容	Compliance With EN55032, CLASS B	Need to add external EMC component (See the Schematic)	
	EMS (Noise Immunity)/ 电磁抗干扰	EN61000-3-2 Class A Heavy industry level (surge L-N:1KV)		
Reliability Requirement 可靠性要求	MTBF/平均故障间隔时间	300Khrs Min @230VAC . MIL-HDBK-217F (25°C)		
	Burn-In Test/ 老化测试	The unit shall be burned in for 2~5 Hours under 264Vac input and DC with full load at 25°C		

## PRODUCT CHARACTERISTIC CURVE



## TYPICAL APPLICATION SCHEMATIC



ITEM	MOV	CX	L1	LCM	CY1,CY2	FUSE
1~2W	14D561K	0.1-0.47uF	0.5~2mH/0.5A	10-30mH	100~2200pF/400VAC	1A/250V
3-10W	14D561K	0.1-0.47uF	0.5~2mH/1A	10-30mH	100~2200pF/400VAC	2A/250V
10~20W	14D561K	0.1-0.47uF	0.5~2mH/1A	10-30mH	100~2200pF/400VAC	3.15A/250V

Note: External circuit components are only recommendations, customers should choose their own components and values according to their specific system application requirements.

## MECHANICAL SPECIFICATION

