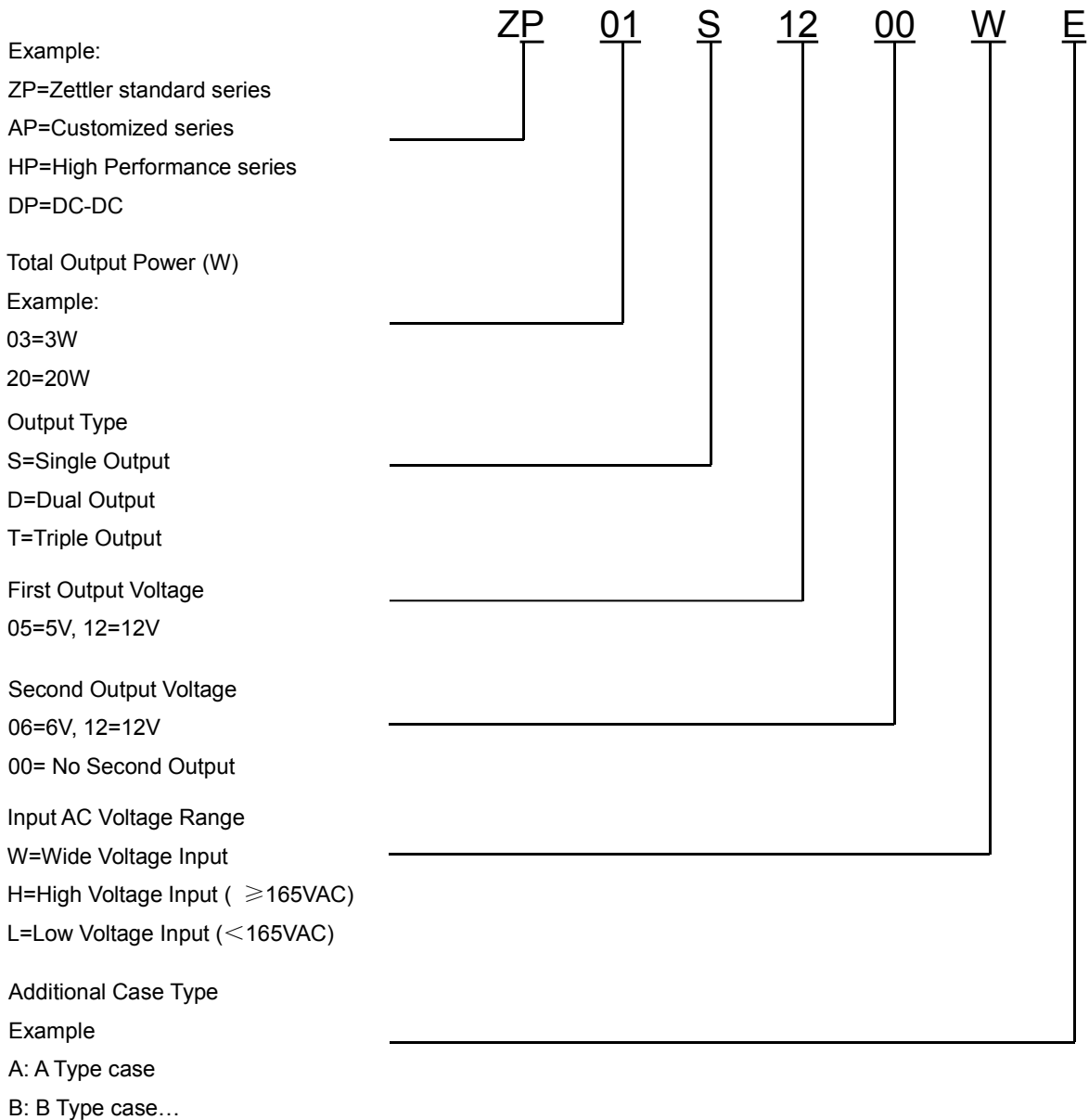




ORDERING CODE (命名规则)



FEATURES (产品特点)

- PCB mounted switching Power module
- AC input voltage range: 90VAC~265VAC
- DC input voltage range: 100VDC~370VDC
- Ambient temperature range:-25°C~70°C
- Storage temperature range:-40°C~105°C
- Leakage current (Input :277VAC):<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, environment-friendly
- Built-in output over current 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.

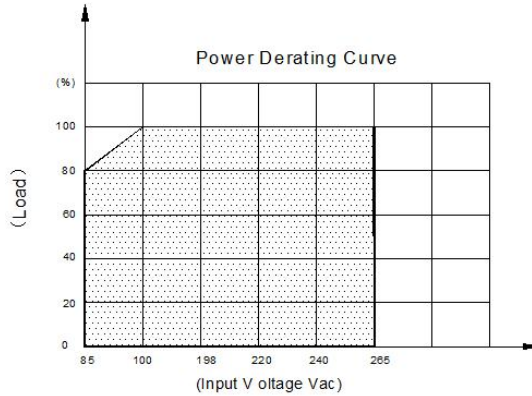
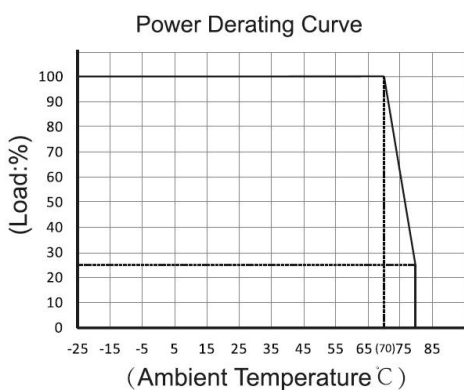
MODEL LIST (型号列表)

Part No.	Output Power	DC Voltage	Rated Current	Efficiency 230VAC, % Typ.	Ripple &Noise (max)	Ambient TEMP(°C)	Weight
ZP01S0300WE	1W	3.3Vdc	300mA	65%	<7% Vout	70	15g
ZP01S0500WE	1W	5 Vdc	200mA	66%	<5% Vout	70	15g
ZP01S0600WE	1W	6 Vdc	167mA	68%	<5% Vout	70	15g
ZP01S0700WE	1W	7.5Vdc	133mA	68%	<5% Vout	70	15g
ZP01S0800WE	1W	8Vdc	125mA	70%	<5% Vout	70	15g
ZP01S0900WE	1W	9Vdc	111mA	72%	<5% Vout	70	15g
ZP01S1000WE	1W	10Vdc	100mA	72%	<5% Vout	70	15g
ZP01S1200WE	1W	12Vdc	85mA	72%	<5% Vout	70	15g
ZP01S1500WE	1W	15Vdc	67mA	74%	<5% Vout	70	15g
ZP01S1800WE	1W	18Vdc	55mA	74%	<5% Vout	70	15g
ZP01S2400WE	1W	24Vdc	42mA	74%	<5% Vout	70	15g

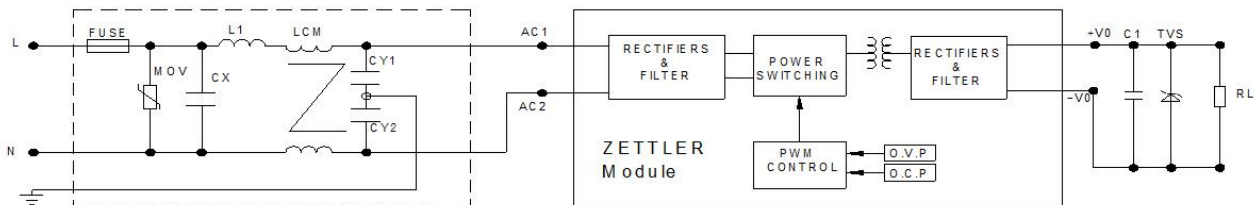
ELECTRICAL SPECIFICATION (电性能参数)

Model No. / 型号		ZP01SXX00WE		
Input 输入参数	Rate Voltage / 额定电压	100~240VAC		
	Input Voltage Range / 输入电压范围	90-265 VAC (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	10A	
	No Load Loss / 待机功耗	0.3W Max		
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	17.2ms/230Vac, 27.7ms/115Vac		
	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...+70°C @Free air convection		
	Operating Humidity / 工作湿度	10-90% RH		
	Storage Temperature / 存储温度	-40°C...+105°C		
	Storage Humidity / 存储湿度	5-95% RH		
	Temperature Coefficient/温度漂移系数	$\pm 0.05\%/^{\circ}\text{C}$ (0~50°C)		
Physical 外观结构	Case Material / 外壳材质	Plastic (UL 94V-0 rated)		
	Weight / 产品净重	15g (ref.)		
Safety & EMC 安全认证及 电磁兼容	Dielectric Strength / 绝缘强度	$\geq 3000\text{V}/50\text{HZ}$ 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 normal temperature		

PRODUCT CHARACTERISTIC CURVE (产品特性曲线)



TYPICAL APPLICATION SCHEMATIC (典型应用电路)



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 (尺寸图)

