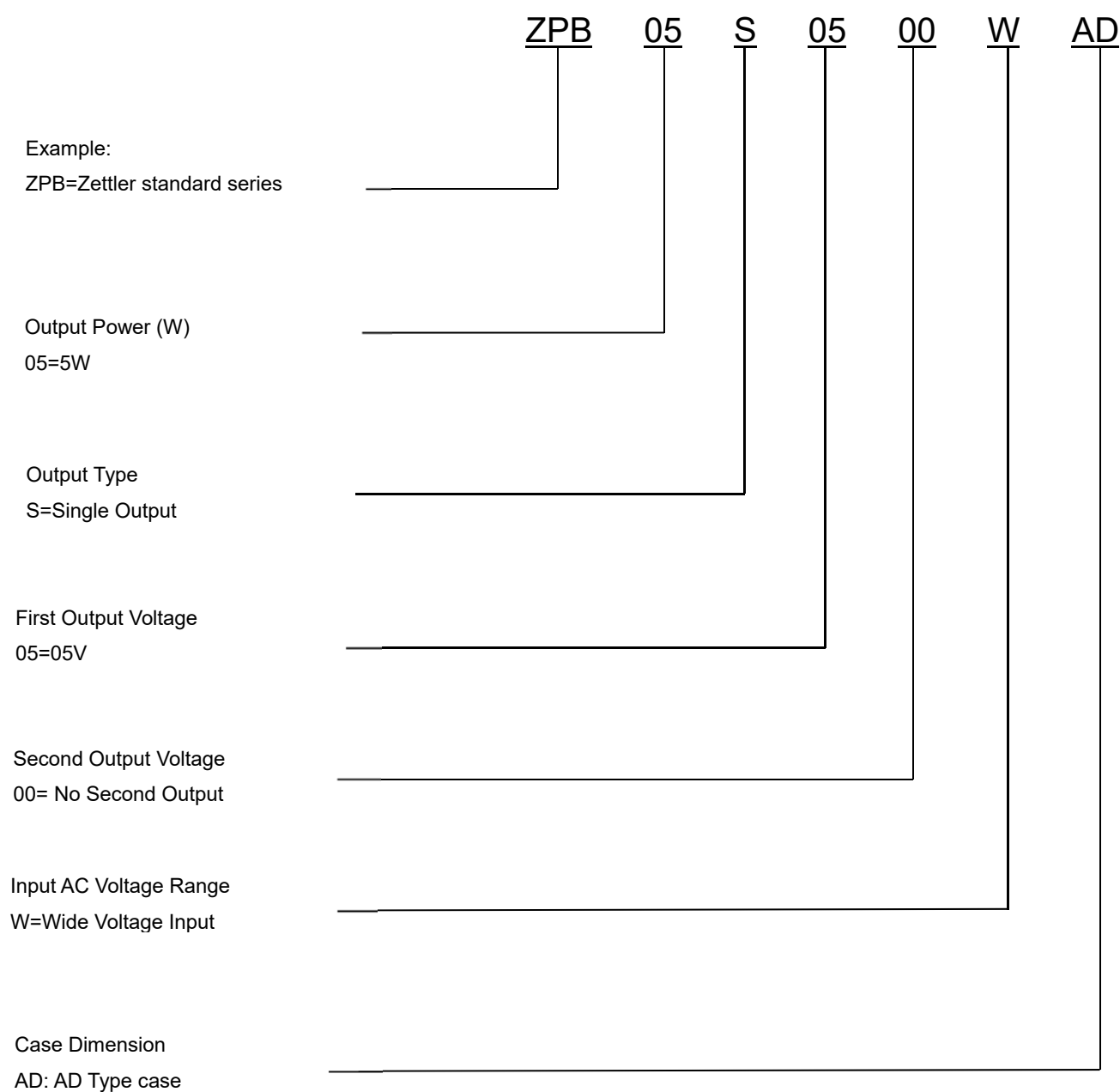




ORDERING CODE (命名规则)



FEATURES (产品特点)

- PCB mounted switching Power module
- AC input voltage range:85VAC-305VAC
- DC input voltage range: 100VDC-430VDC
- Ambient temperature range: -40°C ~85°C
- Storage temperature range: -40°C ~105°C
- Leakage current (input :305VAC):<0.3mA
- Isolation voltage: Input –Output $\geq$ 4000VAC 60s
- Insulation Resistance: Input –Output 500VDC $\geq$ 100M Ohms
- MTBF: 600Khrs Min MIL-HDBK-217F (25°C)
- Compact size, easy installation
- High efficiency low standby Power consumption, green environmental protection function
- Built-in output over current protection, over-voltage protection, short circuit protection
- Built-in EMI filter components, comply with the EN55032 class B standard
- Class II Construction 

APPLICATIONS (应用)

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

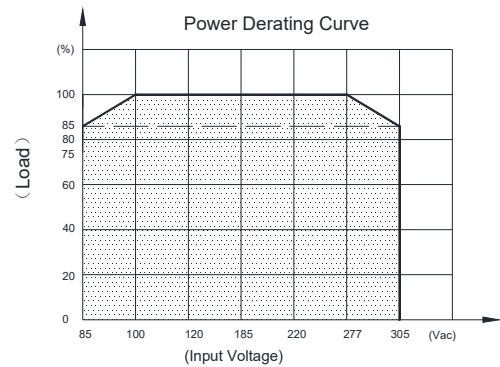
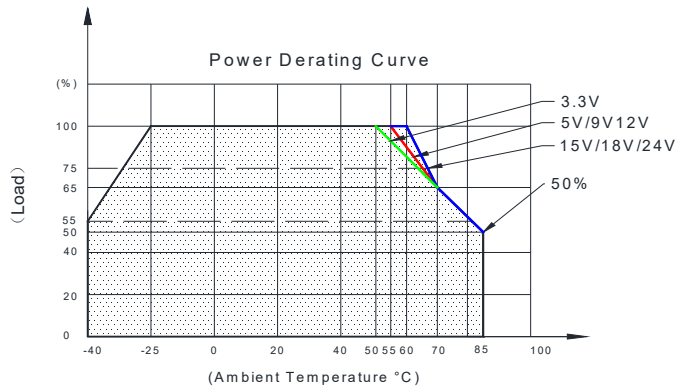
MODEL LIST (型号列表)

Model No.	Output Power	DC Voltage	Rated Current	Efficiency 230VAC, % Typ.	Capacitive Load(max)	Ripple & Noise (max)	Ambient TEMP(°C)	Weight	Certificate		
									UL	TUV	CB
ZPB05S0300WAD	5W	3.3 Vdc	1515mA	65%	4000uF	<100mV	50	19g		●	
ZPB05S0500WAD	5W	5Vdc	1000mA	74%	3000uF	<100mV	55	19g		●	
ZPB05S0900WAD	5W	9Vdc	555mA	78%	1200uF	<100mV	55	19g		●	
ZPB05S1200WAD	5W	12Vdc	416mA	80%	1200uF	<100mV	55	19g		●	
ZPB05S1500WAD	5W	15Vdc	333mA	80%	1200uF	<100mV	60	19g		●	
ZPB05S1800WAD	5W	18Vdc	277mA	80%	680uF	<100mV	60	19g		●	
ZPB05S2400WAD	5W	24Vdc	208mA	80%	220uF	<100mV	60	19g		●	

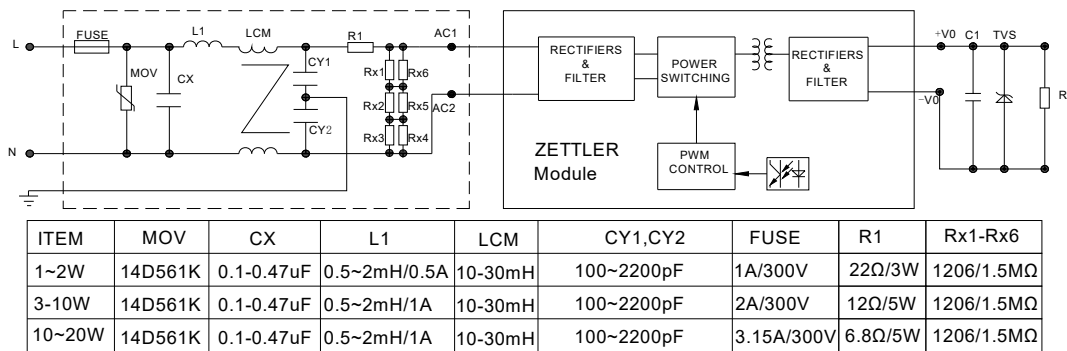
ELECTRICAL SPECIFICATION (电性能参数)

Model No. / 型号		ZPB05SXX00WAD	
Input 输入参数	Rated Voltage / 额定电压	100-277VAC	
	Voltage Range / 输入电压范围	85-305VAC or 100-430VDC	
	Frequency (Hz) / 输入频率范围	47-63 Hz	
	Current (Full load) / 输入电流	115VAC	230VAC
		150mA	75mA
	Inrush Current (<500us) / 冲击电流	15A	25A
	No Load Loss / 待机功耗	0.1W 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	±3%@3.3V (Typ.) Other Outputs ±2% (Typ.)	
	Line Regulation / 线性调节率	±0.5%	
	Load Regulation / 负载调节率	±1%	
	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"	
	Start-up Time / 开机延迟时间	3s	
	Hold up Time / 掉电保持时间(典型值)	50ms/230VAC, ≥5ms/115VAC	
Protection 保护特性	Over Current Protection / 过流保护	Hiccup mode	
	Short Circuit Protection / 短路保护	Hiccup mode	
Environment 环境	Operating Temperature / 工作温度	-40°C...+85°C (refer to the Power Derating Curve)	
	Operating Humidity / 工作湿度	20~90% RH (No Condensing) at full load	
	Storage Temperature / 存储温度	-40°C~105°C	
	Storage Humidity / 存储湿度	10~95% RH	
	Temperature Coefficient/温度漂移系数	±0.05%/°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	19g (ref.)	
Safety & EMC 安全认证及 电磁兼容	Dielectric Strength / 绝缘强度	I/P-O/P : 4000VAC	
	Protection against electric shock	Class II construction ☐	
	Safety Standards / 安全标准	Compliance with EN62368-1, EN61558-2-16, Plastic materials in accordance with EN60335-1 clause 30	
	EMI / 电磁兼容	Compliance with EN55032 CLASS B, EN61000-3-2, EN61000-3-3	
	EMS (Noise Immunity)/ 电磁抗干扰	Compliance with EN55035	Need to add external EMC component (Refer to the Schematic)
Reliability Requirement 可靠性要求	MTBF/平均故障间隔时间	600Khrs Min MIL-HDBK-217F (25°C)	
	Burn-In Test/ 老化测试	The unit shall be burned in for 2~4 Hours under 277Vac input and with full load at 25°C	

PRODUCT CHARACTERISTIC CURVE (产品特性曲线)



TYPICAL APPLICATION SCHEMATIC (典型应用电路)



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)

