

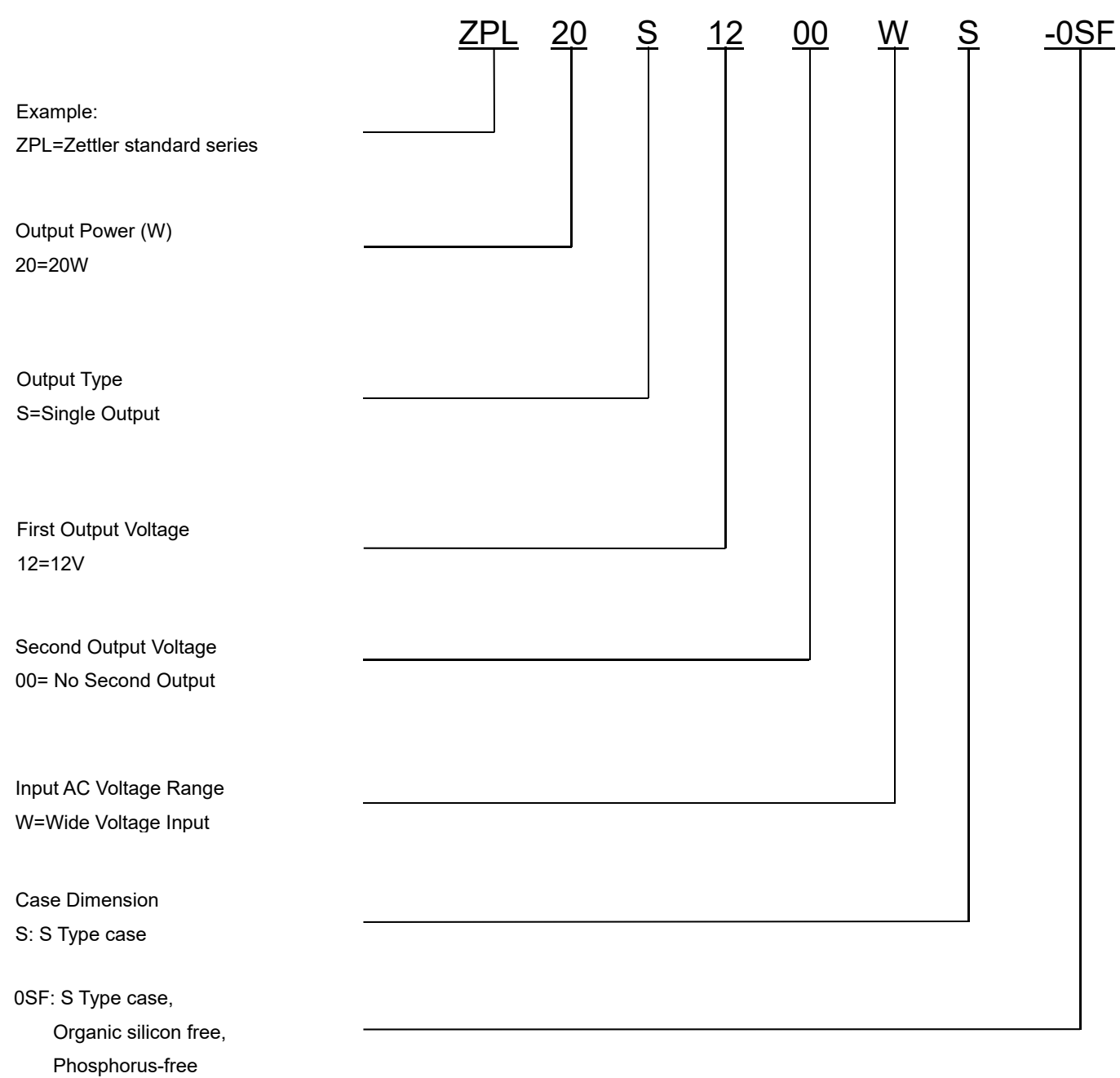


RoHS

Organic silicon free

Phosphorus-free

ORDERING CODE（命名规则）



FEATURES (产品特点)

- PCB mounted switching Power module
- AC input voltage range: 90VAC-305VAC
- DC input voltage range: 120VDC-430VDC
- Ambient temperature range: -40°C ~70°C
- Storage temperature range: -25°C ~85°C
- Leakage current (input :264VAC): <0.3mA
- Isolation voltage: input –Output ≥3600VAC 60s
- Insulation Resistance: Input –Output 500VDC ≥100M Ohms
- MTBF: 300Khrs Min MIL-HDBK-217F (25°C)
- Compact size, easy installation, Surge L-N 2.5KV
- 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 applications of harsh industrial, EV charger, Automotive etc.

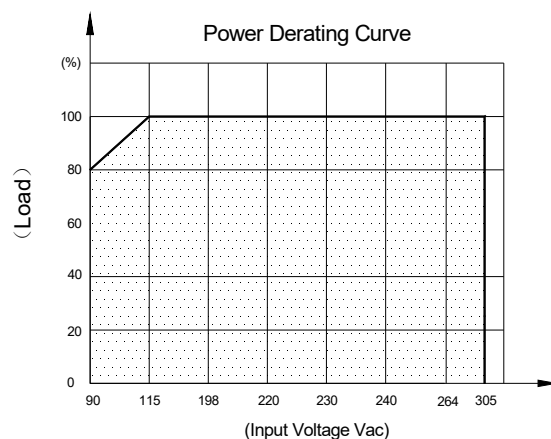
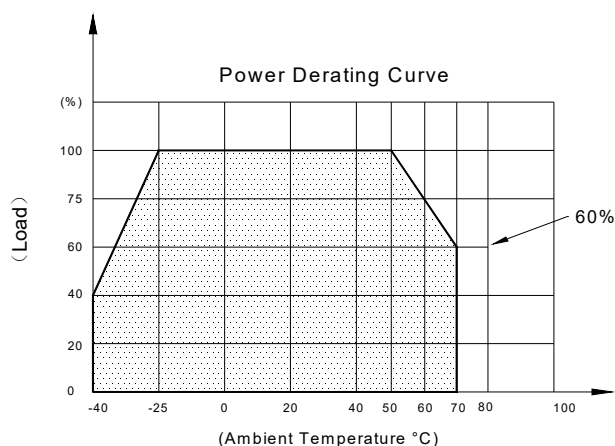
MODEL LIST (型号列表)

Model No.	Output Power	DC Voltage	Rated Current	Efficiency 230VAC, % Typ.	Ripple&Noise (max)	Ambient TEMP(°C)	Weight	Certificate		
								UL	TUV	CB
ZPL20S0500WS-0SF	20W	5Vdc	4000mA	80%	<200mV	50	78g	●	●	●
ZPL20S1200WS-0SF	20W	12Vdc	1670mA	85%	<200mV	50	78g	●	●	●
ZPL20S1500WS-0SF	20W	15Vdc	1330mA	85%	<200mV	50	78g	●	●	●
ZPL20S1800WS-0SF	20W	18Vdc	1110mA	85%	<200mV	50	78g	●	●	●
ZPL20S2400WS-0SF	20W	24Vdc	830mA	85%	<200mV	50	78g	●	●	●

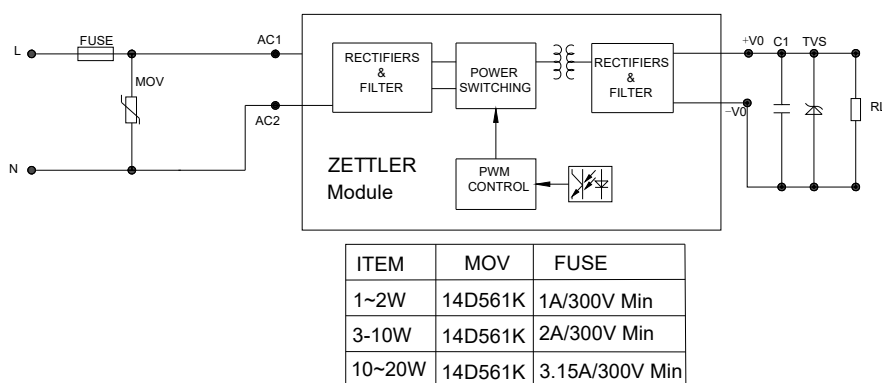
ELECTRICAL SPECIFICATION (电性能参数)

Model No. / 型号		ZPL20SXX00WS-0SF		
Input 输入参数	Rated Voltage / 额定电压	100-277VAC		
	Voltage Range / 输入电压范围	90-305VAC or 120-430VDC		
	Frequency (Hz) / 输入频率范围	47-63 Hz		
	Current (Full load) / 输入电流	115VAC	230VAC	277VAC
		400mA	300mA	250mA
	Inrush Current (<500us) / 冲击电流	20A	40A	50A
	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	±3%		
	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)	76.9ms/230VAC ,13.6ms/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...+70°C （40% Load@-40°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	-25°C~85°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	78g（ref.）		
Safety & EMC 安全认证及 电磁兼容	Dielectric Strength / 绝缘强度	I/P-O/P：3600VAC		
	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	Need to add external EMC component (Refer to the Schematic)	
	EMS (Noise Immunity)/ 电磁抗干扰	Compliance with EN 55035, Surge EN61000-4-5 (2.5KV, L-N)		
Reliability Requirement 可靠性要求	MTBF/平均故障间隔时间	300Khrs 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)

